

10th CHEMISTRY

NOTESPK Test Series

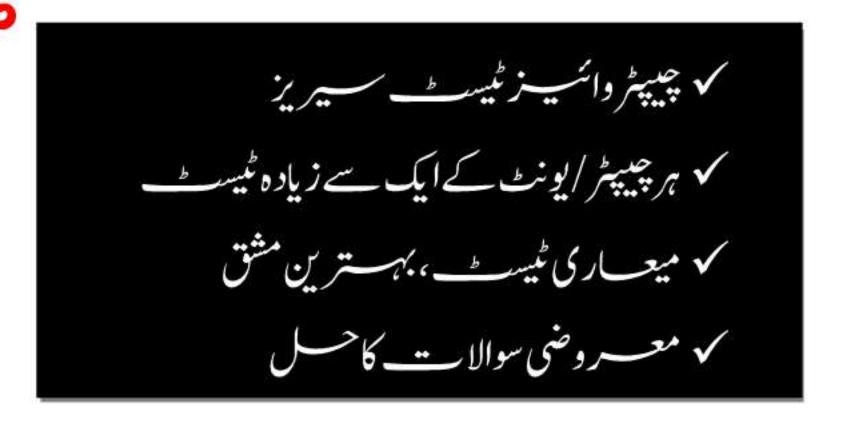
Chapter Wise, Quarter Wise, Half Book, Full Book Test Series



Chemistry

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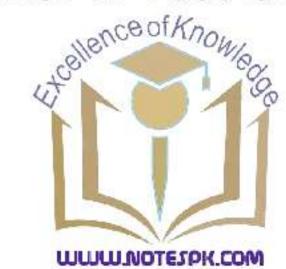
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Key to Chemistry (English Medium)

Rey to Chemistry (English Medium)												
Test # 1	1(d)	2(c)	3(c)	4(a)	5(d)	6(b)	7(a)	8(c)	9(c)	10(d)	11(d)	12(d)
Test # 2	1(d)	2(d)	3(c)	4(a)	5(c)	6(a)	7(a)	8(c)	9(d)	10(d)	11(d)	12(a)
Test # 3	1(d)	2(d)	3(a)	4(c)	5(b)	6(b)	7(d)	8(c)	9(c)	10(d)	11(d)	12(a)
Test # 4	1(d)	2(a)	3(d)	4(c)	5(b)	6(a)	7(b)	8(d)	9(a)	10(c)	11(c)	12(a)
Test # 5	1(a)	2(b)	3(a)	4(c)	5(b)	6(a)	7(b)	8(d)	9(b)	10(c)	11(c)	12(c)
Test # 6	1(c)	2(b)	3(a)	4(c)	5(c)	6(c)	7(b)	8(c)	9(a)	10(d)	11(b)	12(c)
Test # 7	1(b)	2(c)	3(d)	4(b)	5(c)	6(b)	7(c)	8(a)	9(b)	10(a)	11(c)	12(a)
Test # 8	1(b)	2(c)	3(d)	4(a)	5(c)	6(a)	7(a)	8(b)	9(a)	10(c)	11(c)	12(c)
Test # 9	1(b)	2(c)	3(b)	4(b)	5(d)	6(c)	7(d)	8(a)	9(a)	10(a)	11(a)	12(b)
Test # 10	1(b)	2(a)	3(a)	4(d)	5(d)	6(b)	7(c)	8(c)	9(d)	10(a)	11(c)	12(c)
Test # 11	1(b)	2(c)	3(d)	4(b)	5(d)	6(a)	7(a)	8(a)	9(d)	10(b)	11(b)	12(a)
Test # 12	1(c)	2(c)	3(b)	4(b)	5(b)	6(a)	7(b)	8(c)	9(a)	10(d)	11(d)	12(a)
Test # 13	1(d)	2(d)	3(b)	4(d)	5(c)	6(b)	7(b)	8(a)	9(b)	10(b)	11(a)	12(d)
Test # 14	1(b)	2(c)	3(d)	4(d)	5(d)	6(c)	7(d)	8(b)	9(d)	10(a)	11(b)	12(a)
Test # 15	1(c)	2(a)	3(d)	4(c)	5(a)	6(a)	7(c)	8(c)	9(b)	10(c)	11(c)	12(b)
Test # 16	1(a)	2(c)	3(c)	4(b)	5(b)	6(¢)	7(b)	8(c)	9(c)	10(c)	11(d)	12(a)
Test # 17	1(a)	2(b)	3(a)	4(a)	5(c)	Ç6(b)	7(a)	8(b)	9(a)	10(a)	11(a)	12(b)
Test # 18	1(c)	2(a)	3(b)	4(d)	5(c)	6(a)	7(a)	8(b)	9(c)	10(c)	11(a)	12(c)
Test # 19	1(a)	2(b)	3(d)	4(a)	5(d)	6(b)	7(b)	8(a)	9(b)	10(c)	11(b)	12(a)
Test # 20	1(d)	2(b)	3(d)	4(a)	5(a)	6(d)	7(c)	8(d)	9(a)	10(b)	11(a)	12(c)
Test # 21	1(d)	2(d)	3(a)	4(c)	5(b)	6(c)	7(d)	8(b)	9(a)	10(c)	11(b)	12(d)
Test # 22	1(a)	2(b)	3(a)	4(c)	5(b)	6(a)	7(a)	8(b)	9(d)	10(c)	11(b)	12(a)
Test # 23	1(a)	2(c)	3(c)	4(a)	5(b)	6(a)	7(c)	8(c)	9(b)	10(b)	11(c)	12(c)
Test # 24	1(a)	2(d)	3(d)	4(a)	5(a)	6(d)	7(c)	8(d)	9(a)	10(c)	11(a)	12(d)
Test # 25	1(b)	2(a)	3(d)	4(c)	5(a)	6(c)	7(b)	8(c)	9(d)	10(c)	11(c)	12(b)
Test # 26	1(a)	2(c)	3(d)	4(c)	5(a)	6(d)	7(c)	8(b)	9(b)	10(c)	11(d)	12(b)
Test # 27	1(a)	2(a)	3(d)	4(d)	5(d)	6(a)	7(b)	8(d)	9(a)	10(c)	11(a)	12(a)
Test # 28	1(b)	2(a)	3(c)	4(b)	5(b)	6(b)	7(b)	8(a)	9(d)	10(c)	11(c)	12(b)

Test # 1	Chapter # 9	Chemical Equilibrium	Time: 30 Mir	
1. O O O O O O O O O O O O O O O O O O O	B C D O O O	A B C D A B 5. O O 9. O O 6. O O O 10. O 7. O O O 11. O 8. O O O O O	C D O O O O O O	

- Fill the box of correct answer in this manner that the ink is not come out from the box.
- (12)

- When the magnitude of K_{ϵ} is very small it indicates:
 - (a) equilibrium will never establish
- (b) all reactants will be converted to products
- (c) reaction will go to completion
- (d) the amount of products is negligible
- Reactions which have comparable amounts of reactants and products at equilibrium state have:

(b) very large K_c value (c) moderate K_c value

(a) very small K_c value

(iii) At dynamic equilibrium:

- (a) the reaction stops to proceed
- (b) the amounts of reactants and products are equal
- the speeds of the forward and reverse reactions and equal
- (d) the reaction can no longer be reversed
- (iv) In an irreversible reaction dynamic equilibrium:
 - (a) never establishes

- establishes before the completion of reaction
- establishes after the completion of reaction
- establishes readily
- (v) A reverse reaction is one that:
 - (a) which proceeds from left to right
- (b) in which reactants react to form products
- (c) which slows down gradually
- (d) which speeds up gradually (vi) Nitrogen and hydrogen were reacted together to make ammonia $N_2 + 3II_2 \prod \frac{1}{2} \prod \frac{1}{$
- (b) N_2H_2 and NH_3 (c) N_2 and N_3 only (a) NH_3 only (vii) For a reaction between PCl_3 and Cl_2 to form PCl_5 , the units of K_c are:
- H_2 only

(d) mol dm3

 $K_c = 2.86 mol^{-2} dm^6$

(d) none of these

- (a) mol dm-3 (b) mol⁻¹ dm⁻³
- (viii)At equilibrium state the are possibilities:

(a)

- (b) 2
- (c) 3
- (d) 4

- (ix) The colour of lodine is:
 - (a) Black
- (b) Yellow
- Purple

(c) mol-1 dm3

(d) Green

- (x) The colour of HI is:
 - (a) Orange
- (b) Purple
- (c) Red
- (d) Colorless
- (xi) For reaction between H_2 and I_2 to form 2Hl the units of K_c are:
 - (a) mole dm³
- (b) $mole^{-1}dm^{-3}$
- (c) mole dm³
- (d) No unit

- (xii) In the beginning the rate of reverse reaction is:
- (a) Negligible **%**-----
- (b) Very fast
- (c) Moderate
- (d) Slow

Write short answers of the following questions.

- Write expression for the equlibrium constant for the reaction $N_2 + 3H_2 \square 2NH_3$ (i)
- Write equlibrium canstant expression for the reaction $H_2 + I_2 \parallel 2HI$
- (iii) Which two generalizations can be made about direction of chemical reaction?
- (iv) Write down the characteristics of a reversible reaction.
- Write down two macroscopic characteristics of a dynamic equilibrium.
- (vi) What is equilibrium constant?
- (vii) What are ir-reversible reactions?
- (viii) If reaction quotient Qc of a reaction is more than Kc. What will be the direction of the reaction.
- (ix) What is meant by forward reaction? Giveone example.

A B C D A B C D A B C D 1. O

1- Fill the box of correct answer in this manner that the ink is not come out from the box.

(12)

- (i) Units of K_C in the reaction $II_2 + I_2 \square$ 2III are.
 - (a) mol dm³
- (b) $-mol^{-1}dm^{-3}$
- (c) mol^2dm^3
- (d) No units

- (ii) The unit of molar concentration is:
 - (a) $mol dm^{-2}$
- (b) $mol dm^{-1}$
- (c) mol dm³
- (d) $mol dm^{-3}$

- (iii) If $Q_c = K_c$ the reaction goes in:
 - (a) Forward
- (b) Reverse
- (c) At equilibrium state
- (d) None

- (iv) The value of K_c depends only on:
 - (a) Temperature
- (b) Initial concentration
- (c) Both A & B
- (d) None of these

- (v) K_c is always equal to:
 - (a) $\frac{R_f}{R_r}$
- (b) $\frac{K_r}{K_f}$
- (c) $\frac{K_f}{K_r}$
- (d) $\frac{R_i}{R_j}$

- (vi) For which reaction K_f is the rate constant?
 - (a) Forward reaction (b) Backward reaction
- (c) Upward reaction
- (d) Downward reaction
- (vii) The characteristics of reversible reactions are the following except:
 - (a) products never recombine to form reactants
- (b) they never complete
- (c) they proceed in both ways
- (d) the have a double arrow between reactants and products
- (viii)In the lime kiln, the reaction $CaCO_{s(s)} \longrightarrow CaO_{(s)} + CO_{2(g)}$ goes to completion because:
 - (a) of high temperature

- (b) CaO is more stable than CaCO₃
- (c) CO₂ escapes continuously
- (d) CaO is not dissociated
- (ix) For the reaction, $2A_{(g)} + B_{(g)} \square \square \square 3C_{(g)}$
 - (a) $\frac{[2A][B]}{[3C]}$
- (b) $\frac{[A]^2[B]}{[C]^3}$
- (c) $\frac{[3C]}{[2A][B]}$
- $(d) \quad \frac{[C]}{[A]^2[B]}$

- (x) When a system is at equilibrium states:
 - (a) the concentration of reactants and products becomes equal
 - (b) the opposing reactions (forward and reverse) stop.
 - (c) the rate of the reverse reaction becomes very low.
 - (d) the rates of the forward and reverse reactions become equal
- (xi) Which one of the following statement is not correct about active mass?
 - (a) rate of reaction is directly proportional to active mass
 - (b) active mass is taken in molar concentration
- (c) active mass is represented by square brackets
- (d) active mass means total mass of substances
- (xii) When the magnitude of K_c is very large it indicates:
 - (a) reaction mixture consists of almost all products(b) reaction mixture has almost all reactants
- (c) reaction has not gone to completion
- (d) reaction mixture has negligible products
- 2- Write short answers of the following questions.

(18)

(i) Define equilibrium state.

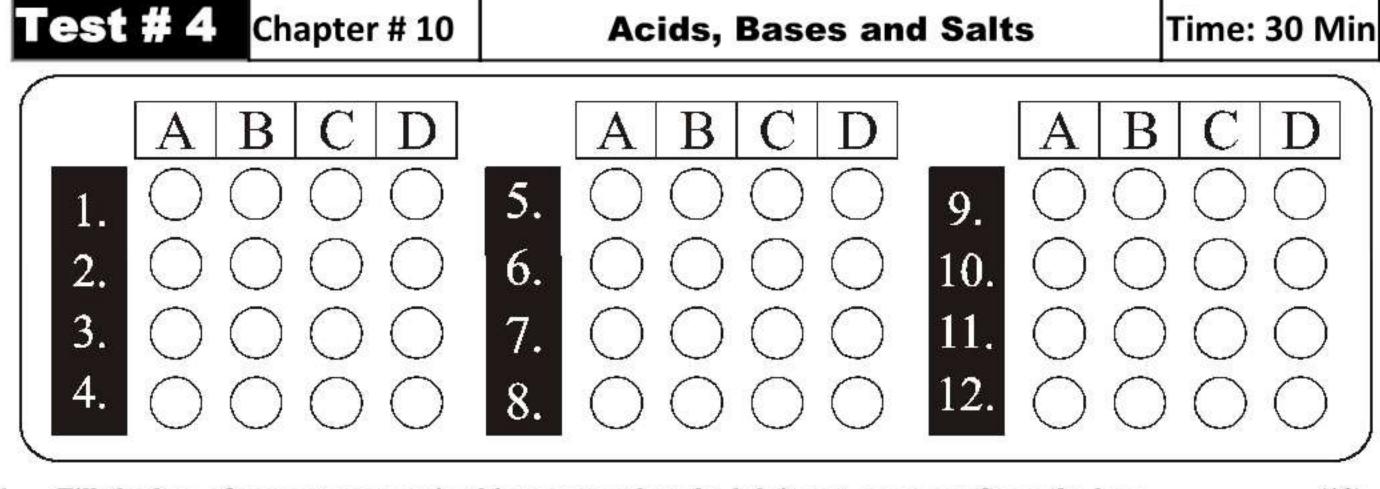
- (ii) Write down two characteristics of reverse reaction.
- (iii) What are numerator and denominator?
- (iv) Write two chemicals name which are formed by oxygen.
- (v) What is combustion process? Give an example. (
- (vi) Give importance of equilibrium constant.
- (vii) Write equation of forward reaction between hydrogen and iodine.
- (viii)Define Law of Mass Action.
- (ix) Describe the difference between forward reaction and reverse reaction.

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Test # 3 Chapter # 10	Acids, Bases and Salts	Time: 30 Min
A B C D 1. 0 0 0 0 2. 0 0 0 3. 0 0 0 4. 0 0 0	A B C D A B 5. 0 0 0 9. 0 0 6. 0 0 0 10. 0 0 7. 0 0 0 11. 0 0 8. 0 0 0 12. 0 0	C D 000

									/
1-	Fill	the box of corre	ct answ	er in this man	ner that th	e ink is not come	out from tl	he box.	(12)
(i)	Dilu	ite acids react wi	th carb	onates to pro	duce the gi	ven products exce	ept		
	(a)	salt	(b)	water	(c)	carbon dioxide	(d)	hydrogens	
(ii)	In t	he preparation o	f insolu	ble salts, whic	ch one of th	he facts is incorrec	et?		
	(a)	two soluble salts	are mix	ted	(b)	two soluble salts a	re produce	d	
	(c)	one of the salts p	roduced	l is insoluble	(d)	both of the salts p	roduced are	insoluble	
(iii)	A r	eaction between	an acid	and a base pr	oduces:				
	(a)	salt and water	(b)	salt and gas	(c)	salt and acid	(d)	salt and a base	
(iv)	The	conjugate acid o	of <i>HPO</i> ₄ ²⁻	is:					
	(a)	PO_4^3	(b)	$H_2PO_4^2$	(c)	H_2PO_4	(d)	H_3PO_4	
(v)	Wh	at is the pOH of	a 0.02N	$Ca(OH)_2$?					
	(a)	1.698	(b)	1.397	(c)	12.31	(d)	12.61	
(vi)	Wh	ich one of the fol	llowing	species is not	amphoteri	c?			
	(a)	H_2O	(b)	NH_3	(c)	HCO ₃	(d)	SO_4^2	
(vii)	The	product of Lew	is acid-l	oase reaction	is called ac	lduct. The bond b	etween the	adduct specie is:	
	(a)	ionic	(b)	covalent	(c)	metallic	(d)	coordinate covalen	t
(viii	The)	water of crystal	lization	is responsible	e for the:	*OJ1			
	(a)	melting points of	f crystal	S	(b)	boiling points of c	crystals		
	(c)	shapes of crystal	S		(d)	transition point of	crystals		
(ix)	You	ı want to dry a g	as whic	h one of the f	ollowing	It you will use:			
	(a)	CaCl ₂	××	NaCl	(c)	CaO	(d)	Na_2SiO_3	
(x)								ium hydroxide sol	ution
	add	ed to ferric chlor	ride (Fee	Cl_3) $FeCl_{3(aq)} + 3$.	NaOH _(aq) ——	$\rightarrow Fe(OH)_{3(s)} + 3NaCl_{(aq)}$	Colour of	the precipitate is:	
	(a)	white	(b)	blue	(c)	dirty green	(d)	brown	
(xi)	Wh	ich ion is the con	jugate l	base of sulphi	ıric acid?				
	(a)	SO_3^2	(b)	S^2	(c)	HSO ₃	(d)	HSO ₄	
(xii)	Wh	ich one of the fol	lowing	is a Lewis bas	se?				
2000	(a)	NII_3	(b)	BF_3	(c)	H^+	(d)	AICI ₃	
×									
2-	Wr	ite short answers	of the	following que	stions.				(18)
(i)	Def	ine hyper acidity.							
(ii)	Wha	at are amphoteric	compou	nds? Give two	examples.				

- (iii) Write down the names of two mineral acids.
- (iv) Write down two uses of pH.
- Describe two characteristics of salts.
- (vi) How can we measure PH of a solution?
- (vii) Why pure water is not a strong electrolyte?
- (viii) What are salts? Give two examples.
- (ix) Write names of any two methods of preparation of salts.



Fill the box of correct answer in this manner that the ink is not come out from the box. According to the Lewis concept, acid is a substance which an:

(12)

- - (a) donate a proton

accept a proton

- (b) donate a pair of electron
 - accept a pair of electron
- Given $K_w = [H^+][OH^-] = 1.0 \times 10^{-14}$ at 25°C
 - (a) 1×10^{-7} mol dm⁻³
- (b) $1 \times 10^7 \, mol \, dm^{-3}$
- 1×10 14 mol dm 3 (c)
- 1×10¹⁴ mol dm 3 (d)

- (iii) Ca(OCl)Cl is an example of:
 - (a) Complex salts
- (b) Doulbe salts
- Normal salts
- (d) Mixed salts

- (iv) The sum of the pH and pOH at 25°C is:
 - (a) 7
- (b) 12
- (c) 14
- (d) 16
- (v) Which gas is evolved when carbonates react with dilute acids?
 - (a) \boldsymbol{H}_{2}
- (b) CO₂
- NO_2 (c)
- N_{2} (d)

- (vi) A reaction between acid and base produces:
 - (a) Salt and Water
- (b) Salt and gas
- (c) Salt and acid
- (d) Salt and base
- (vii) A base is a substance which neutralizes an acid. Which of substances is not a base?
- (viii)Lewis acid-base concept have the following characteristics except:
- aqueous ammonia (b) sodium chloride
- (c) sodium carbonate
- (d) calcium oxide
- formation of an adduct formation of a co-ordinance covalent bond
 - donation and acceptance of an electron pair
- donation and acceptance of a proton

(d) cleaning metals

- (ix) Acetic acid is used for:
 - (a) flavouring food A salt is not composed of:
- making explosive
- non-metallic anion

etching designs

a metallic cation an anion of a base

- an anion of an acid (d)
- (xi) If a liquid has a pH of 7 then it must:
 - (a) be a colourless and odourless liquid

be neutral

freeze at 0°C and boils at 100°C be a solution containing water

(xii) A salt always:

contains water of crystallization

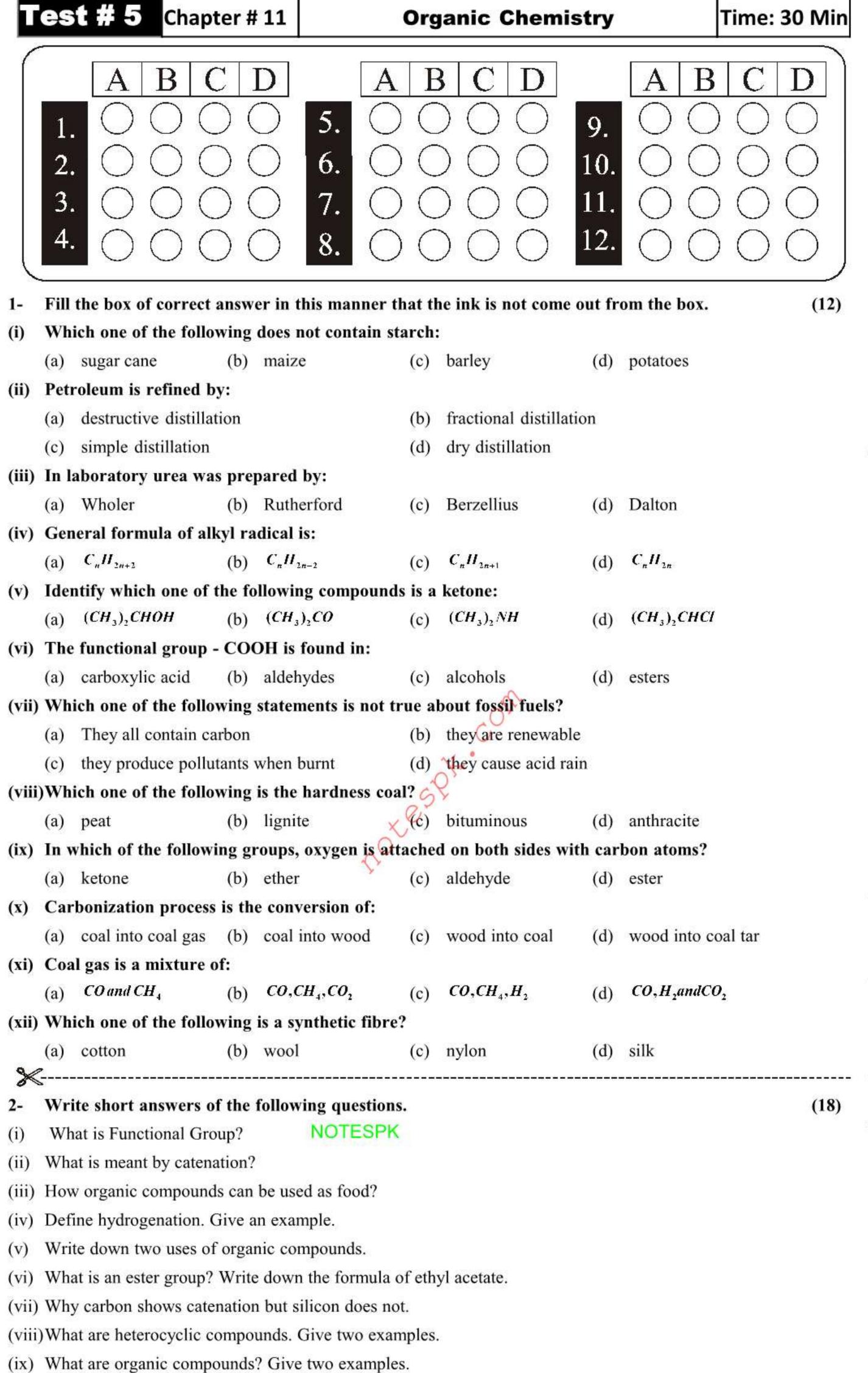
dissolves in water

contains ions

forms crystals which conduct electricity

Write short answers of the following questions.

- Define acids and bases. Give examples. (i)
- Find out acids the pH and POH of 0.001M solution of KOH.
- (iii) Write down the conjugate bases of the following:
- HS^-
- H_3O
- Write uses of sulphuric acid and hydrocholoric and acid.
- What is neutralization?
- (vi) Write any four uses of bases.
- (vii) Write down the uses of sodium hydroxide and calcium hydroxide.
- (viii)Define pH. What is the pH of pure water?
- (ix) Write down the names of two natural acids and their sources.



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Test # 6 Chapter # 11	Organic Chemistry	Time: 30 Min
A B C D 1. 0 0 0 0 2. 0 0 0 3. 0 0 0 4. 0 0 0	A B C D A B 5. O O O 9. O O 6. O O O 10. O O 7. O O O 11. O O 8. O O O O O O O O	C D O O O O O O

- 1- Fill the box of correct answer in this manner that the ink is not come out from the box.
- (12)

- (i) Which one of the following is not a fossil fuel?
 - (a) coal
- (b) natural gas
- (c) biogas
- (d) petroleum

- (ii) Which one of the following does not contain protein:
 - (a) pulses
- (b) potatoes
- (c) beans
- (d) eggs
- (iii) Conversion of dead plants into coal by the action of bacteria and heat is called:
 - (a) carbonization
- (b) catenation
- (c) hydrogenation
- (d) cracking
- (iv) Which one of the following compounds is an aldehyde?
 - (a) $CH_3 CH_2 OH$
- (b) $CH_3 COOH$
- (c) CH₃CHO
- (d) CH₃COCH₃

- (v) Formula of acetaldehyde is:
 - (a) $CH_3 CH_2OH$
- (b) $CH_3 C OH$
- (c) $CH_3 C H$
- (d) H C I

- (vi) General formula of Alkyl redical is:
 - (a) $C_n H_{2n+2}$
- (b) $C_n H_{2n-2}$
- (c) $C_n \mathbf{H}_{2n+}$
- (d) $C_n H_{2n}$

- (vii) The ability of carbon atoms to form chains is called:
 - (a) isomerism
- (b) catenation
- (c) resonance
- (d) condensation

- (viii)Coal having 90% carbon contents is called:
 - (a) peat
- (b) lignite
- (c) anthracite
- (d) bituminous

- (ix) Main component of natural gas is:
 - (a) methane
- (b) propane
- (c) butane
- (d) propene
- (x) The strong heating of coal is retorts in the absence of air is called:
 - (a) fractional distillation

(b) sublimation

(c) roasting

(d) destructive distillation

- (xi) Pitch is black residue of:
 - (a) coke
- (b) coal tar
- (c) coal
- (d) coal gas
- (xii) Natural gas is 85% methane. It is used to make the following except:
 - (a) carbon black
- (b) coke
- (c) coal tar
- (d) coal gas

2- Write short answers of the following questions.

- (i) Define aromatic organic compounds. Give one examples.
- Differentiate between branched chain and straight chain compounds.
- (iii) What is structural formula? Give one example.
- (iv) What is dot and cross formula? Give one example.
- (v) Differentiate between molecular and structural formulae.
- (vi) What is meant by isomerism? Give an example.
- (vii) Write condensed formula of any two hydro carbons.
- (viii) What are cyclic and acyclic compounds?
- (ix) What is Closed Chain? Write the name of its types.

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	1. 2. 3. 4.	A B (C () () (D 5. (C) 6. (C) 7. (C) 8. (A E	C D O O	9. 10. 11. 12.	A B OOO	C D O O	
1-	Fill	the box of correct	t answ	er in this manne	r that tl	ne ink is not con	ne out fr	om the box.	((12)
(i)	Deh	ydrohalogenation	takes	place in the pre	sence of	•				
	(a)	NaOH aqueous	(b)	alcoholic KOH	(c)	aqueous KOH	(d)	alcoholic NaC	Н	
(ii)	Oxio	dation of ethene w	vith KA	<i>InO₄</i> produces:						
	(a)	Oxalic acid	(b)	glyoxal	(c)	ethane glycol	(d)	propene glyco	ol	
(iii)	Whi	ich one of these is	a satu	rated hydrocarl	bon?					
	(a)	C_2H_4	(b)	C_3H_6	(c)	C_4H_8	(d)	C_5H_{12}		
(iv)	A h	ydrocarbon has r	nolecu	lar formula $C_8 I$	H ₁₄ . Wh	at is the molect	ular forn	nula of the ne	xt member	of the
32 25 1075	sam	e homologous ser	ies?							
	(a)	$C_9 II_{18}$	(b)	C_9H_{16}	(c)	C_9H_{20}	(d)	C_9H_{12}		
(v)	Wha	at is the molecula	r form	ula for the eight	th alkan	e member, octa	ne, whic	h is found in p	etrol?	
				C_8H_{16}		54554 - 7/5/20	terneso.	Search Country		
(vi)	One	of the hydrocar	8 5				97 S		drocarbon.	What
11 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (nula of the X?				vanie – sam ∰earriem vaar ∰et trink bij 1907 dek		sectors at Harmon of Martakil 1.7970 € th		
		C_3H_8	(b)	$C_6 H_{12}$	(c)	C_4H_{10}	(d)	$C_7 H_{16}$		
(vii)	Deh	ydration of alcoh	ols can	be carried out	with:	CO	35.5%			

Substitution reaction is the characteristics of:

(viii) The end product of oxidation of acetylene is:

- (a) alkanes
 - (b) alkenes (c)
- alkynes

(c) 11,50₄

(d) none of these

(d) HCl

(c) magnesium metal (d) potassium metal

(xi) Halogenation of methane in the presence of diffused sunlight takes place:

(b) zinc metal

- suddenly, only in one step
- (b) slowly in one step
- in a series of four steps
- (d) fastly in two steps
- (xii) The order of reactivity of hydrogen halides with alkenes is:

(b) KOH

(a) HI > HBr

(a) NaOH

(a) sodium metal

- (b) HBr > HI
- (c) HCl > HBr
- (d) HBr < HCl

Write short answers of the following questions.

- Givetwo uses of Methane. (i)
- What is Dehydrohalogenation of Alkyl Halides?
- (iii) What are saturated and unsaturated hydro carbons?
- (iv) How we can prepare Ethyne by dehydrohalogenation of vicinal Dihalides?
- Write the names and general formulas of unsaturated hydrocarbons.
- (vi) Give two uses of Ethyne.
- (vii) How hydrocarbons act as fuel?
- (viii) What are alkynes? Give its general formula.
- (ix) Why orchids produce alkanes?

Ц	<u> </u>	Chapte	r# 12			iyarocarbons	5	Time: 30	iviin
	1. 2. 3. 4.	A B C O O O	D	5. C 6. C 7. C		C D O O O	9. 10. 11. 12.	A B C I	<u>S</u>
1-	Fill	the box of correct ar	iswer in 1	this manner	that tl	ne ink is not come o	out fr	om the box.	(12)
(i)	Oxi	dation of alkenes pro	oduce:						
	(a)	glyoxal	(b) glyco	ol	(c)	oxalic acid	(d)	formic acid	
(ii)	Deh	ydration of alchols c	an be ca	rried out wit	h:				
	(a)	NaOH	(b) KOF	I	(c)	H_2SO_4	(d)	HC1	
(iii)		ich one of these is a s			n?	man manus			
	(a)	C_2H_4	(b) C_3H	6	(c)	C_4H_8	(d)	C_5H_{12}	
(iv)	Wh	ich are called paraff	ins?						
	(a)	Alkanes	(b) Alke	nes	(c)	Alkynes	(d)	Alkyl	
(v)	Wh	ich is a substitution	reaction?						
	(a)	Halogenation of alky	nes		(b)	Halogenation of al	kenes		
	(c)	Halogenation of alka	ines		(d)	Bromination of alk	tenes		
(vi)		general formula of							
			3 5	2 <i>n</i>	0.00	$C_n H_{2n-2}$	1 1	C_nH_{2n+1}	
(vii)							000 SA	eous solution of bromin	e?
	(a)		(b) $C_{10}H_1$		(c)	C_2H	` /	C_2H_2	
(viii	530	, es	l has 4 c	arbon atoms	, all s	ingly bonded, it w	ill ha	ve the following charac	teristics
		ept one:			05	<u>></u>			
	(a)	it will be satured hyd			(b)	it will have 8 hydro	1000 N	atoms	
<i>(</i> : _ \	(c)	its name will be n-bu		\$		it will be least reac	tive		
(IX)	/C900090	reduction of alkyl h			::•:: %::v		(L)	C /IIC1	
(-A	(a)	DOMESTICAL TOPOS ASSOCIATION	(b) Na/F		(c)	Mg/HCl	(d)	Cu/HCl	
(x)		ogenation of methan		•				ahlaramathana	
(vi)	(a)	carbon tetrachloride omplete combustion	N 70		(c)	carbon black	(d)	chloromethane	
(AI)	(a)	carbon dioxide only	OI AIKAIIC	s produces:	(b)	carbon monoxide o	nlv		
	()	divinia om			(0)				

(xii) Alkenes are prepared from a alcohols by a process called:

(a) dehydrogenation (b) dehalogenation (c) dehydration (d) dehydrohalgenation

(d) carbon dioxide and carbon black

2- Write short answers of the following questions.

carbon monoxide and carbon black

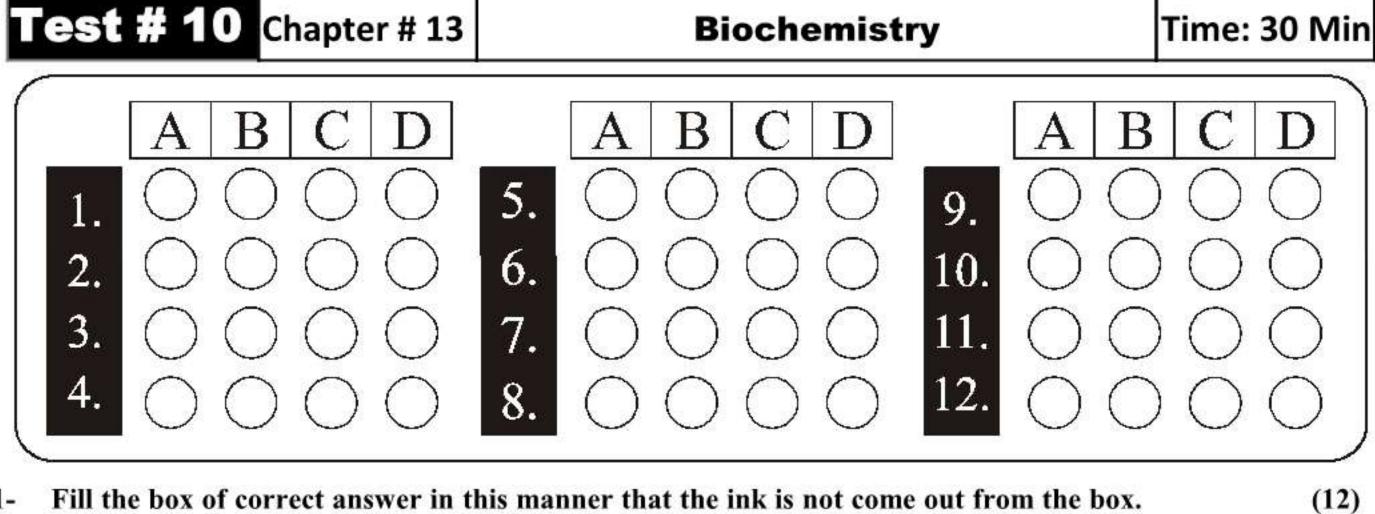
- (i) Write down four physical properties of alkanes.
- (ii) Define alkynes. Give two examples.
- (iii) Give uses of ethylene.
- (iv) What do you mean by halogenation?
- (v) Why the alkanes are used as fuel?
- (vi) Why alkenes are reactive?
- (vii) Write occurence of alkene.
- (viii)Write formula of glyoxal and oxalic acid.
- (ix) How hydrocarbons are used in plastic industry?

Test # 9 Chapter # 13	Biochemistry	Time: 30 Min
A B C D 1. 0 0 0 0 2. 0 0 0 3. 0 0 0 4. 0 0 0	A B C D A B 5. 0 0 0 9. 0 0 6. 0 0 0 10. 0 0 7. 0 0 0 11. 0 0 8. 0 0 0 12. 0 0	CD 000000000000000000000000000000000000
i) Thousand of the amino acid poly	this manner that the ink is not come out from the box. merize to form:	(12)

		영화가장 - [하셔야기 - 용사 - 하루/(하세요)(3)(8)		하게 - (8.70)이고하면 하루스로로 요즘하게 하게 되었는 어려워보다고 하는		하나면의 아이는 하는 하는 이 나를 하는 것이 모든 것이다.			
(i)	Tho	usand of the amin	o acio	l polymerize to form:					
	(a)	carbohydrates	(b)	proteins	(c)	lipids	(d)	vitamins	
(ii)	Wh	ich one of followin	gs is	a triglyceride?					
	(a)	carbohydrates	(b)	proteins	(c)	lipids	(d)	vitamins	
(iii)	Enz	ymes are proteins	which	h have the following pro	operti	es except:			
	(a)	they catalyze react	ion		(b)	they are highly nor	-spec	ific	
	(c)	they are highly eff	icient		(d)	they are produced l	y liv	ing cells	
(iv)	Wh	ich one of the follo	wing	vitamins is water solub	le?				
	(a)	vitamin A	(b)	vitamin C	(c)	vitamin D	(d)	vitamin E	
(v)	Wh	ich one of the follo	wing	is a fat soluble vitamin	?				
	(a)	A	(b)	E	(c)	K	(d)	All of these	
(vi)	Wh	ich one of the follo	wing	is not the characteristic	es of n	nonosaccharide?			
	(a)	white crystalline so	olids		(b)	soluble in water			
	(c)	hydrolysable			(d)	reducing in nature			
(vii)	Wh	ich one of the follo	wing	statements about gluco	se and	Lsucrose is incorre	ct?		
	(a)	soluble in water	(b)	naturally occurring	(c)°	carbohydrates	(d)	disaccharides	
(viii))Wh	ich one of the follo	wing	is a reducing sugar?	8.				
	(a)	glucose	(b)	maltos	(c)	sucrose	(d)	starch	
(ix)	The	most important o	ligosa	ccharide is:					
	(a)	sucrose	(b)	glucose	(c)	fructose	(d)	maltose	
(x)	Nig	ht blindness is beca	ause (of deficiency of:					
	(a)	vitamin A	(b)	vitamin E	(c)	vitamin C	(d)	vitamin D	
(xi)	The	organic compoun	ds use	ed as drugs to control b	leedin	ig are:			
	(a)	vitamins	(b)	proteins	(c)	lipids	(d)	glycerides	
(xii)	Defi	iciency of vitamin	E cau	ses:					
	(a)	rickets	(b)	scurvy	(c)	anemia in babies	(d)	night blindness	

2- Write short answers of the following questions.

- (i) What are fatty acids? Give one example TESPK
- (ii) What is Ribonucleic Acid (RNA)?
- (iii) Write uses of Vitamin-D.
- (iv) What are Fat Soluble Vitamins? Write their examples.
- (v) What is difference between Oil and Ghee?
- (vi) How carbohydrates act as source of energy?
- (vii) Write down two uses of lipids.
- (viii)Write two uses of proteins.
- (ix) Write the names and formulae of two fatty acids.



12

- Lipids are macromolecules. They have characteristics except one of the following: (i)
 - they are high energy foods
- they are soluble in water
- they are poor conductor of heat
- they are esters of fatty acids
- Vitamins are Accessory Growth Factors. They play important role in our body like:
 - provide energy to the body
- insulate our body from electric shock

build brain cells

- regulate metabolic process
- (iii) The most important oligosaccharide is:
 - (a)Sucrose
- Glucose (b)
- Fructose (c)
- (d) Maltose

- (iv) The process of photosynthesis produce:
 - (a) Starch
- (b) Cellulose
- Sucrose (c)
- Glucose (d)
- Eye inflammation is caused by the deficiency of Vitamin:
 - (a) Vitamin D
- (b) Vitamin C
- (c) Vitamin B
- (d) Vitamin A

- (vi) Number of amino acids in proteins is:
 - (a) 1000
- (b) 1000 more than
- (c) 10000 less than
- (d) 10000 more than
- (vii) Carbohydrates are synthesized by plants through photosynthesis process which requires the following except:
 - (a) CO₂ and water
- (b) presence of sunlight (c)
- (d) chlorophyll

- (viii) Which of the following is a disaccharide?
 - (a) glucose
- (b) fructose
- (c) sucrose
- (d) starch

(a) starch (b) cellulose

(ix) Photosynthesis process produces:

- sucrose
- (d) glucose

- Which one of the following is taste less?

(a) starch

(b) glucose

(c)

fructose

(d) sucrose

- (xi) When glucose and fructose combine they produce:
 - (a) starch
- (b) cellulose
- sucrose (c)
- (d) none of these

- (xii) Glucose is:
 - hexahydroxy aldehyde

hexahydroxy ketone

(c) pentahydroxy aldehyde

- pentahydroxy ketone
- Write short answers of the following questions.

- Give general formula of lipids. Also give two examples. (i)
- Describe the uses of carbohydrates. (ii)
- (iii) Which elements are found in proteins?
- (iv) What are monosaccharides?
- Write down two characteristics of fats.
- (vi) Write Uses of vitamin A.
- (vii) How gelatin is obtained?
- (viii) What is the function of DNA?
- (ix) Write sources of vitamins A and D.

Ī	es	t # 11 Chap	ter#	14	Th	ie A	Atmosphere		Time: 30 Min		
	1. 2. 3. 4.	A B C		5. 6. 7. 8.	A B		C D 9. (9. (10. (11. (12. (12. (12. (12. (12. (12. (12	A [B C D C O C O C O C O C O C O C O C O C O C O		
1-						e ink	is not come out from	the box	x. (12)		
(i)		mally rain water is		B.	ause of:	Z = X	CO	7.1	50		
(**)	(a)	so, gas	8.5	CO ₂ gas		(c)	so, gas	(d)	so, gas		
(ii)		dings are being da	305300	2 2 2							
	30.40	calcium sulphate	3 6			8350	calcium carbonate	(d)	calcium oxalate		
(iii)	Acio	d rain affects the a	quatic	life by closin	g fish gills	beca	iuse of:				
	(a)	lead metal	(b)	chromium me	tal	(c)	mercury metal	(d)	aluminium metal		
(iv)	Ozo	ne is beneficial for	us as	it:							
	(a)	absorbs infrared ra	diation	S		(b)	absorbs ultraviolet radiations				
	(c)	absorbs chlorofluor	rocarbo	ons		(d)	absorbs air pollutants				
(v)	Whi	ich one of the follo	wing is	s not an air p	ollutant?						
	(a)	nitrogen	(b)	carbon monox	ride	(c)	nitrogen dioxide	(d)	ozone		
(vi)	Iron	and steel structur	es are	damaged by:	•						
	(a)	carbon monoxide	(b)	sulphur dioxic	le	(c)	methane	(d)	carbon dioxide		
(vii)	Infr	ared radiations em	itted b	y the Earth	are absorb	ed b	y;				
	(a)	co_2 and H_2o	(b)	N_1 and O_2		(c)	CO_2 and N_2	(d)	o_2 and co_2		
(viii)Glol	bal warming cause	s rising	g of the sea le	evel. The c	ause	of global warming is:				
	(a)	co, gas	(b)	so ₂ gas	5	(c)	NO_x gas	(d)	$o_{s \text{ gas}}$		
(ix)	Whi	ich gas protects the	Fartl	n's surface fr	om ulfravi	olet	radiations?				

(x) Effects of ozone depletion are following except the one:

(b) CO

- (a) increases infectious diseases
- (b) increases crops production

(c) can cause skin cancer

(d) can cause climatic changes

(xi) Which one of these pollutants are not found in car exhaust fumes?

- (a) CO
- (b) O_3
- (c) NO_2

(c) N_2

(d) SO_2

(xii) The process by which atmospheric nitrogen is turned into nitrates in the soil is called:

NOTESPK

- (a) nitration
- (b) fixing
- (c) oxidation
- (d) reduction

 O_3

(d)

2- Write short answers of the following questions.

(18)

- (i) Where Ozone is found?
 - ii) Write sources of oxides of carbon.

(iii) Give two serious effects of Ozone depletion.

- (iv) Write two effects of acid rain.
- (v) How incinceration of was material causes air pollution?
- (vi) How acid rain increases the acidity of soil?
- (vii) Describe the two effects of SO₂.
- (viii) Identify the primary and secondary pollutants from the following. SO_2 , CH_4 , HNO_3 , NH_3 , H_2SO_4 , O_3
- (ix) What is the role of government to control pollution?

	es	t # 12 Chapter #	14 The	e A	tmosphere		Time: 30 Min		
	1. 2. 3. 4.	A B C D O O C	A B 5. O O 6. O O 7. O O 8. O O		C D A 9. 10. 11. 12.		B C D O O O O O O O O		
1-	Fill	the box of correct answer	in this manner that the	ink	is not come out from t	he bo	x. (12)		
(i)	Glo	bal warming is because of	:						
	(a)	absorption of infrared radia	ations emitted by the Ear	th's	surface				
	(b)	absorption of infrared radia	ations coming from the S	Sun					
	(c)	absorption of ultraviolet ra	idation coming from the	Sun					
	(d) Emission of ultraviolet radiation from the Earth's surface.								
(ii)	Car	rbon monoxide is harmful t	to us because it:						
	(a)	Paralyses lungs		(b)	Damages lungs tissue				
	(c)R	Reduces oxygen carrying abi	lity of haemoglobin ((d)	Makes the blood coagula	ate			
(iii)	The	e stratosphere layer is at he	eight above the earth's	surf	ace:				
	(a)	0-12 Km (b) 1:	2-50 Km	(c)	50-85 Km	(d)	85-120 Km		
(iv)	The	process by which atmospl	heric nitrogen is turned	l int	o nitrates is called:				
	(a)	Nitration (b) F	ixing	(c)	Oxidation	(d)	Reduction		
(v)	The	e earth's atmosphere is gett	ting hotter because of i	nrea	sing concentration of:				
	(a)	CO (b) (CO_2	(c)	O C	(d)	SO_2		
(vi)	Hig	h concentration of which e	element clogs the fish g	ills?					
	(a)	Al (b) C	Su A	(c) °	Zn	(d)	Br		
(vii)	Hov	w many percentage of sunl	ight is absorbed by atn	nosp	heric gases.				
	(a)	12% (b) 1	8% × ((c)	24%	(d)	30%		
(viii)Wh	ich gas is not present in at	mosphere? 🔎						
		Nitrogen (b) O		(c)	Helium	(d)	Carbon dioxide		
(ix)	Abo	out 99% atmosphere's mas	s lies within:						
	(-)	20 1-11	5 1 :1	(.)	15 1 11	(1)	111.0		

- 30 kilometre
- (b) 35 kilometre

- (c) 15 kilometre
- (d) 11 kilometre

(x) Depending upon temperature variation, atmosphere is divided into how many regions?

- (a) one
- (b) two
- (c) three
- (d) four

(a) mesosphere (b) stratosphere

- thermosphere (c)
- troposphere

(xii) A group of gases that maintains temperature of atmosphere is:

- (a) carbon dioxide and water vapours
- (b) nitrogen and carbon dioxide
- (c) oxygen and water vapours

(xi) Just above the Earth's surface is:

- (d) nitrogen and oxygen

Write short answers of the following questions.

- State the major sources of CO and CO₂ emission. (i)
- What is the difference between atmosphere and environement?
- (iii) What is global warming? Write its effects.
- (iv) Why are the flood risks increasing?
- Write percentage composition of atmposphere by volume.
- (vi) How CO is an air pollutant?
- (vii) What are the characteristics of atmospheric region?
- (viii) What is air pollutant? Give example of primary and secondary air pollutants.
- (ix) How CO_2 is responsible for heating up atmosphere?

Test # 13 Chapter # 15	Water	Time: 30 Min
A B C D 1. 0 0 0 0 2. 0 0 0 3. 0 0 0 4. 0 0 0	A B C D A I 5. O O O 9. O O 6. O O O 10. O O 7. O O O 11. O O 8. O	B C D O O O O O O O O O O
3. 0 0 0 4. 0 0 0	7. 0 0 0 11. 0	

- Which one of the following salts makes the water permanently hard?
 - Na_2CO_3 (a)
- NaIICO3 (b)
- $Ca(HCO_3)_2$
- CaSO, (d)
- Rapid growth of algae in water bodies is because of detergent having:
 - (a) carbonate salts
- (b) sulphonic acid salts
- sulphate salts
- phosphate salts

- (iii) Depletion of O_2 from water is not because of:
 - decaying of aquatic plants
- biodegradation of aquatic plants
- rapid growth of aquatic plants
- decomposition of aquatic plants
- (iv) Which one of the following diseases causes liver inflammation?
 - (a) typhoid
- (b) jaundice
- (c) cholera
- hepatitis (d)
- (v) Which one of the following diseases causes severe diarrhea and can be fatal?
 - (a) jaundice
- dysentery
- cholera (c)
- (d) typhoid
- (vi) Which one of the following gases is used to destroy harmful bacteria in water? (c) fluorine
 - (a) iodine

(a) Ca^{2+}

- (b) chlorine
- (vii) Which one of the following ions does not cause hardness in water?
- (d) bromine

- (viii)A disease that causes bone and tooth damage is:
- (b) Mg^{2+}
- (c) SO_4^2
- Na (d)

- (a) fluorosis (b) hepatitis

- cholera
- (d) jaundice

- (ix) Ionic compounds are soluble in water due to:
 - (a) hydrogen bonding

ion-dipole forces

dipole-dipole forces

- dipole-induced dipole forces
- The chemicals used to kill or control pests are called pesticides. They are:
 - (a) dangerous inorganic chemicals
- (b) dangerous organic chemicals
- beneficial inorganic chemicals
- beneficial organic chemicals

- (xi) Sodium zeolite is resin of:
 - $NaAl(SiO_3)_2$ (a)
- $KAl(SiO_3)_2$ (b)
- (c) $LiAl(SiO_3)_2$
- $RbAl(SiO_3)_2$
- (xii) Which one of the following ion does not cause hardness in water:
 - (a) Ca^{2+}
- (b) Mg^{2+}
- (c) SO_4^{2-}
- (d) Na^+

Write short answers of the following questions.

- Why pesticides are used? (i)
- Write a note on cryptosporidium.
- (iii) What are two effects of water pollution?
- (iv) What is an industrial waste?
- What do you mean by water as solvent?
- (vi) What are Boiler Scales? How these are abolished?
- (vii) Write types of hardness of water.
- (viii) How waterborne diseases can be prevented?
- (ix) Write down chemistry of swimming pool cleanliness.

Te	st # 14 Chapter # 15	Water	Time: 30 Min
	1. O O O O O O O O O O O O O O O O O O O	A B C D A B 5. 0 0 0 9. 0 0 6. 0 0 0 10. 0 0 7. 0 0 0 11. 0 0 8. 0 0 0 12. 0	C D O O O O O O
(i) \	Which percentage of the total wat		(12)
	a) 0.1 (b) 0.2 Water shows maximum density at	(c) 0.3 (d) 0.4 t.	

(b) $100^{\circ} C$ (c) $4^{\circ}C$ (a) $0^{\circ}C$ (iii) Which one of the following salts makes the water permanent hard? $Ca(HCO_3)_2$ $Na_{2}CO_{3}$ NaHCO₃ CaSO₄ (d) (a) (iv) Boiling point of water is: (a) 0°C (b) 25° C 80° C (d) 100° C (c) The oceans contain about of total world's water: (c) 95% (a) 91% (d) 97% (b) 93% (vi) The removal of Mg^{12} and Ca^{12} ions which are responsible for the hardness of water is called: (a) Temporary hardness (b) Permanent hardness (c) Water softening (d) Hydrogen bonding (vii) Which one of the following properties of water is responsible for rising of water in plants?

(a) specific heat capacity

(b) surface tersion

(c) excellent solvent action

capillary action

(viii) Specific heat capacity of water is:

(a) $4.2kJg^{-1}K^{-1}$

(b) $4.2Jg^{-1}K^{-1}$

 $2.4kJg^{-1}K^{-1}$

(d) $2.4Jg^{-1}K^{-1}$

(ix) Water dissolves non-ionic compound by:

(a) ion-ion forces

(b) ion-dipole forces

dipole-dipole forces (d) hydrogen bonding

Temporary hardness is because of:

(a) $Ca(HCO_3)_2$

(b) CaCO₃

 $MgCO_3$ (c)

 $MgSO_4$ (d)

(xi) Temporary hardness is removed by adding:

(a) quick lime

(b) slaked lime

limestone

(d) lime water

(xii) Permanent hardness is removed by adding:

(a) Na₂ zeolite (b) soda lime (c) lime water (d)

(d) quick lime

Write short answers of the following questions.

(18)

Define soft and hard water. (i)

NOTESPK

Explain the Clark's method for removal of hardness in water.

(iii) Write down the disadvantages of hard water.

(iv) Mention the disadvantages of detergents.

Why sea water is unfit for drinking and agricultural purposes?

(vi) What is the function of fertilizers?

(vii) Why water molecule is polar?

(viii) What are the causes of hardness in water?

(ix) What is the differences biodegradable and non-biodegradable substances?

Test # 15 Chapter # 16	Chemical Industries	Time: 30 Min
A B C D 1. 0 0 0 0 2. 0 0 0 3. 0 0 0 4. 0 0 0	A B C D A B 5. O O O 9. O O 6. O O O 10. O O 7. O O O 11. O O 8. O O O O O O O O	C D O O O O O O
WW. -10		

Fill the box of correct answer in this manner that the ink is not come out from the box.

(12)

- In Solvay's process slaked lime is used to:
 - (a) prepare CO₂
- (b) prepare quick lime (c) recover ammonia
- (d) form Na₂CO₃

- When NaHCO₃ is heated it forms:
 - CO_2 (a)
- Ca(OH), (b)
- CaCO, (c)
- CaO (d)

- (iii) Formula of urea is:
 - NH₂COONH₄ (a)
- NH_2COONH_2 (b)
- NH₂CONH₄ (c)
- NH,CONH, (d)

- (iv) Crude oil is heated in the furnace upto:
 - 300°C (a)
- 350"C (b)
- 400° C (c)
- 450° C (d)
- When heated crude oil is fed to the fractionating tower:
 - (a) vapours of higher boiling point fraction condens first in the lower part of the tower
 - (b) vapours of lower boiling point fraction condense first in the lower part of tower
 - (c) vapours of higher boiling point condense later in the upper part of tower
 - (d) vapours of higher boiling point never condense.
- (vi) Which one of the following is used as jet fuel:
 - (a) kerosene oil
- (b) lubricating oil
- (c) fuel oil
- (d) diesel oil
- (vii) Which one of the following is not fraction of crude oil?
 - (a) paraffin wax
- (b) asphalt
- (c) fuel oil (viii) Which one of the following is not a fraction of petroleum?
- (d) petroleum coke
- (b) diesel oil (a) kerosene oil (c) alcohol
- (ix) The nitrogen present in urea is used by plants to synthesize:

- (d) petrol
- (b) proteins (c) fats (a) sugar
- (x) Which one of the following organic compound is found in gasoline?

(a) C_2H_4

(b) C_3H_8

 $(c) \quad C_8 H_{18}$

(d)

(d) DNA

- (xi) Fuel oil contains carbon:
 - (a) $C_7 C_{10}$
- (b) $C_{10} C_{12}$
- (c) $C_{15} C_{18}$
- (d) All these

 $C_{12}H_{26}$

- (xii) Gasoline consists of no. of carbon atoms:
 - (a) 5 to 7
- (b) 7 to 10
- (c) 13 to 15
- (d) 15 to 18

Write short answers of the following questions.

- Write a note on granulation of urea. (i)
- What process are involved in extraction of metal?
- (iii) What is Electromagnetic separation?
- (iv) Give the reaction of formation of Ammonia in the process in the form of equation.
- Why Urea is an important compound?
- (vi) What is gangue?
- (vii) Write raw materials or manufacturing urea.
- (viii) What are Fertilizers?
- (ix) Write the uses of Fuel Oil.

T	es	t # 16 Chap	oter	# 16	Che	mical Industries	•		Time: 30 Mir	1
	1. 2. 3. 4.	A B C]) () () (D A		C D 9. 10. 11.		A B O O O O O O	C D O O O O O	
1-	Fill	the box of correct	answ	er in this manner t	that th	e ink is not come out fr	om tl	he box.	(12)	
(i)	Peti	roleum fraction ha	ving (composition C_i to	C_4 is	called:				
	(a)	Petroleum gas	(b)	Petroleum ether	(c)	Gasoline or petrol	(d)	Kerosin	e oil	
(ii)	The	impurities associa	ted w	ith the minerals a	re kno	owns as:				
	(a)	Metallurgy	(b)	Ores	(c)	Gangue	(d)	Compou	unds	
(iii)	Wh	at is the composition	on of	Kerosene oil?						
	(a)	$C_5 - C_7$	(b)	$C_7 - C_{10}$	(c)	$C_{10} - C_{12}$	(d)	$C_{13} - C_{1}$	15	
(iv)	Am	monia is prepared	by:							
	(a)	Solvay's process	(b)	Haber's process	(c)	Floation process	(d)	Bayer's	process	
(v)	Mai	nufacturing of Ure	a inv	olves how many st	ages.					
	(a)	2	(b)	3	(c)4		(d)	5		
(vi)	Ure	a is a Nitrogen Fer	tilize	r. It consists of	f Nitro	ogen.				
	(a)	26.6%	(b)	36.6%	(c)	46.6%	(d)	56.6%		
(vii)	Con	centration is a:								
	(a)	mixing technique			(b)	separating technique				
	(c)	boiling technique			(d)	cooling technique				
(viii)For	th flotation process	s is us	ed to concentrate	the or	e on:				

(ix) Matte is a mixture of:

density basis

- (a) FeS and CuS
- (b) Cu₂O and FeO
 - X

(b) concentration basis (c) wetting basis

(d) magnetic basis

(d) CuS and FeO

(x) In the bessemerization process:

(a) roasted ore is heated

- (b) molten matte is removed
- (c) molten matte is heated
- (d) molten matte is added

(xi) Concentration of the copper ore is carried out by:

- (a) calcinations
- (b) roasting
- (c) forth flotation
- (d) distillation

(xii) When CO_2 is passed through the ammonical brine the only salt that precipitates is:

- (a) $NaIICO_3$
- (b) NH_4HCO_3
- (c) Na_2CO_3
- (d) $(NH_4)_2 CO_3$

2- Write short answers of the following questions.

- (i) Write the use of kerosene oil.
- NOTESPK
- Describe the difference between diesel oil and fuel oil.
- (iii) Write the formula of petrol and also write its carbon composition. Pattern
- (iv) What is difference between crude oil and residual oil?
- (v) What are minerals?
- (vi) Define metallurgy.
- (vii) How ammonium carbamate formed?
- (viii) Write a note on forth flotation process in the concentration of ore.
- (ix) How carried out the refining of pertoleum?

Chemical Equilibrium To

Time: 30 Min

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Lest # 17 Chapter # 9, 10 Acids, Bases and Salts В B 5. 9. 2. 10. 6. 3. 11. 4. (12)Fill the box of correct answer in this manner that the ink is not come out from the box. The expression for the equilibrium constant for the reaction $N_{2(g)} + 3H_{2(g)} = 2NH_{3(g)}$ is: (a) $\frac{[NH_3]^2}{[N, TH_2]^3}$ (b) $\frac{[N_2]H_2]^3}{[NH_3]^2}$ (c) $\frac{[NH_3]}{[N_2]H_2]}$ (d) $\frac{[NH_3]}{[N, TH_2]^3}$ (ii) If the value of K_c is large, reaction goes to _____. (a) Equilibrium (b) Completion (c) Forward (d) Reverse (iii) If $Q_c < K_c$ reaction proceeds: (a) Forward (c) Equilibrium (d) Both sides (b) Reverse (iv) The substances formed during the chemical reaction are called: (a) Products Radicals (d) Element (b) Reactants (v) N_2O_4 \parallel \bowtie $2NO_2$ reaction has K_C value. (b) 0.214 (c) 0.211 (a) 0.213 (d) 0.212 (vi) Guldberg and Waage put forward Law of Mass Action in;

(viii) The word acid is derived from:

(a) Greek

(a) 1859

(a) 3

(b) Latin

(b) 1869

(b) 11

(c) **1879**

(d) 4

(ix) Which compounds protect teeth from diseases.

(vii) What is pOH of 0.001 M solution of KOH?

(a) Flourine compounds

English

(d) Urdu

(d) 1889

- (c) Chlorine Compounds
 - What is pOH of .01 M solution of HCl. (a) 12
 - (b) 13
- (c) 1
- (d) 4

(xi) Acids turned:

(a) Blue litmus to red

Red litmus to blue

Blue litmus to green

Red litmus to yellow

Iodine compounds

Bromine compounds

(xii) The colour of ppt of Fe (OH)3 is:

- (a) White
- (b) Brown ESPK
- (c) Dirty green
- (d) Blue

Write short answers of the following questions.

- How is dynamic equilibrium established? (i)
- Write two macroscopic characteristics of forward reaction.
- (iii) What is meant by reversible reaction?
- (iv) Define reversible reaction and give two examples.
- What is meant by neutralization? Write an equation.
- (vi) Define pH. What is the pH of pure water?
- (vii) Write down the names of two natural acids and their sources.
- (viii) Write down the uses of Sodium Chlorate.
- (ix) Write physical properties of acid.

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CQs

Ī	es	t # 18 ch	apter#	9, 10		ical Equilibr , Bases and		To s	Time: 30 Min
	1. 2. 3.	A B O O O O O O O	C D O C	 5. 6. 7. 8. 	A B	C D O O O O O O	9. 10. 11. 12.	A B O O O O O	C D O O O O O O O O O O O O O O O O O O
1-	Fill	the box of corre	ct answer	in this mar	ner that th	e ink is not come	out fr	om the box.	(12)
(i)	The	reaction goes fr	om left to	right of:					
	(a)	$Q_C = K_C$	(b) Q	$Q_c > K_c$	(c)	$Q_C < K_C$	(d)	$Q_C = 0$	
(ii)	For	the reaction H_{2}	$_{v)}+I_{2_{(v)}}\prod \prod$	2HI(g) the	equilibriur	n constant expres	sion is	:	
467 - 200-0			asian see a se	1200000 1 12000 Mar	177.C	553-11 (Fe6461)			
	(a)	[H,]	(b)	$\begin{bmatrix} H \end{bmatrix}^2$	(c)	$\frac{[HI]^2}{[II]^2[I,]}$	(d)	$[H]^2$	
		molar concentr		50		L. J L. 3 J		[1	
(111)		{}				()	(d)	Δ 11	
(iv)	in appropriate	Marie Sala Sala			7 No. 7000	5V 5V 500	areas on		al in the balanced
(11)						eactants and pro	Juuci	are not equa	al in the balanced
		mical equation,				72	7.15	r -2 . 6	
5.0					(c)	mol^2	(d)	mol ~dm"	
(v)		reversible react					Kenadan Pena		Mountain M
						Reaction is occur			ion
		Equilibrium has			(d)	Reaction is not at	equilib	orium	
(vi)	2.5	omplete reaction			24.5	F.	a 137	651¥ 30	\$ 4 \$5
	(a)	All the reactants		A	6	All the reactants of		8	
	(c)	Half reactants co			X (gg)	Only 10% reactan	its conv	vert into prod	ucts
(VII)		acid which is ca	67.5		20	TT TT	F 7.15	2 4 ************************************	
<i>(</i>	(a)	Sulphuric acid	2. 4	litric acid	(c)	Hydrochloric acid	l (d)	Acetic acid	
(VIII		ich base is more	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7.5	$C_{\alpha}(\Omega H)$	(4)	$Al(OH)_3$	
(iv)	(a)	<i>NH₄OH</i> mple of complex	(0)	VaOH.	(c)	$Ca(OH)_2$	(d)	A1(OH)3	
(1X)	(a)	mple of complex Zinc sulphate	Sait is.		(b)	Potash alum			
	(c)	Potassium ferro	cvanide		(d)	Sodium phosphate	e		
(x)	30.50	$Fe(CN)_6$ is a:	cyamic		(u)	Souram phosphae	C		
(A)	(a)	Normal salt	(b) M	lixed salt	(c)	Complex salt	(d)	Double salt	
(xi)		ich salt is used a	X X		(0)	Complex sait	(u)	Double sait	
	(a)	KNO3		TCI	(c)	CaCl,	(d)	NaClO ₃	
(xii)		ich salt is used to	(0)			**	(u)	*	
()	(a)	CaCℓ,		vaCl	(c)	CaO	(d)	Na,SiO,	
3	<u> </u>						N-7		
2-	Wri	te short answers	s of the fol	lowing que	estions.				(18)
(i)		at do you mean by							
(ii)		No. 11.5.11		1002 1402 1407 10		ct the extent of a c	hemica	al reaction?	
100000000		at is a Static equil		18 W 784					
Z. 7		nt is magnt by dyn			•				

- (iv) What is meant by dynamic equilibrium?
- (v) Write the equilibrium constant expression for the following reaction. $N_{2(g)} + O_{2(g)} \parallel 2NO_{(g)}$
- (vi) Write physical properties of acids.
- (vii) What is an alchoholic functional group? Give an example.
- (viii) What is neutralization method for the preparation of a salt?
- (ix) What are limitations of Arhenius concept?

	00	t # 19 a		# 11 12	Org	anic Cher	nistry	To	Times 2	O B.4:
	<u>G</u> 5		napter	# 11, 12		Hydroca	rbons		Time: 3	U IVIIN
	1. 2. 3. 4.	A B O O O O O O O	C () () () () () () () () () (D 5. C 6. C 7. C 8.	A I	C D O C	9. 10. 11. 12.	A B	c (
1-	Fill	the box of corr	ect answ	er in this ma	anner that tl	ne ink is not co	ome out fr	om the box.		(12)
(i)	Tra	ces the amount	of acetyl	ene present	in coal gas	are:				
	(a)	0.06%	(b)	0.07%	(c)	0.08%	(d)	0.09%		
(ii)	The	ability of Carb	on atom	to form cha	in is called:					
	(a)	Isomerism	(b)	Catenation	(c)	Resonance	(d)	Condensatio	on	
(iii)	Wh	ich one is satur	ated hyd	ro carbon:	20° ± 402		200 K			
		C_2H_4		C_3H_6	(c)	C_4H_8	(d)	C_5H_{12}		
(iv)	80.00	formula of Par	8.6	*	7-7	*	1-7			
()		C_5II_{12}		C_5II_{10}	(c)	C_5II_8	(d)	$C_5 H_{14}$		
(v)	20.50	v many percent			8.9			5 7 14		
(1)								050/		
<i>(</i> •)	, ,	82%	0.0	83%	(c)	84%	(d)	85%		
(VI)		eral formula of			2.0	Z 11	2.50	Z. II		
		C_nH_{2n-2}			(c)	C_nH_{2n+2}	(d)	$C_n H_{2n+1}$		
(vii)	Wh	ich one is also c								
	(a)	Alkanes	(b)	Alkenes		Alkynes	(d)	Alcohals		
(viii)Wh	ich reaction is t	he chara	cteristic pro	perty of alk	anes:				
	(a)	Substitution rea	action		(b)	Oxidation rea	ection			

(ix) Which gas is produced during ripening of bananas?

- (a) Methane
- (b) Ethene
- (c) Acetylene

Addition reaction

(d) CO2

Which one of the following compounds is not produced by the halogenation of methane?

- (a) CCl4
- (b) CHCl₃
- (c) CO_2
- (d) CH_3CI

(xi) Molecular formula of butane is:

Reduction reaction

- (a) C_4H_8
- (b) C_4H_{10}
- (c) C_4H_{12}
- (d) C_4H_6

(xii) Which one of the following compounds is saturated hydrocarbon:

- (a) Methane
- (b) Propene
- (c) Ethyne
- (d) Propyne

Write short answers of the following questions.
NOTESPK
Write two general properties of organic compounds.

- How coal is formed?
- (iii) What is destructive distillation?
- (iv) Write formulae of n-propyl and isopropyl.
- Which compounds are called Ketones?
- (vi) What is reduction reaction? Give chemical equation.
- (vii) Describe the combustion process with equation.
- (viii) Write down the molecular and structural formula of Ethyne.
- (ix) Describe the characteristics of poly-saccharides.

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T	est # 20 Chapter # 11, 12	Org	Time: 30 Min			
			Hydrocarb	ons		
	A B C D 1. 0 0 0 0 5. 2. 0 0 0 0 6. 3. 0 0 0 8.		C D O O	9. 10. 11. 12.	A B	C D O O O O O O
1-	Fill the box of correct answer in this m	nanner that th	ne ink is not com	e out fro	om the box.	(12)
(i)	Wood contains carbon about:					
	(a) 10% (b) 20%	(c)	30%	(d)	40%	
(ii)	The formula of octane is:					
	(a) $C_9 H_{18}$ (b) $C_8 H_{18}$	(c)	$C_8\overline{H}_{20}$	(d) ($C_9oldsymbol{H}_{20}$	
(iii)	Percentage of carbon in peat is:					
	(a) 30% (b) 40%	(c)	50%	(d)	60%	
(iv)	The coal in which the percentage of ca	rbon is 60%:				
	(a) Peat (b) Lignite	(c)	Bituminous	(d)	Anthracite	
(v)	Rancid butter has a foul smell because	e of:				
	(a) Butanoic acid (b) Nitric acid	(c)	Tartaric acid	(d)	Sulphuric ac	id
(vi)	The example of heterocyclic compound	d is:				
	(a) Benzene (b) Hexane	(c)	Cyclohexane	(d)	Pyridine	
(vii)	The chemical formula of chloroform is	s:	1			
	(a) $CH_3C\ell$ (b) $CH_2C\ell_2$	(c)	CHCL	(d)	$CC\ell_4$	
(viii	General formula of alkynes is:		21 0			
	(a) $C_n H_{2n}$ (b) $C_n H_{2n+1}$	(c).(C_nH_{2n+2}	(d)	$C_n H_{2n-2}$	
(ix)	Which one of these hydrocarbon mole		V			of bromine?
	(a) CH_4 (b) $C_{10}H_{20}$	×(c)	C_2II_4	(d)	C_2H_2	
(x)	If an organic compound has 4 carbon	atoms, all si	ingly bonded, it	will hav	ve the follow	ing characteristics
	except one:	*				
	(a) it will be satured hydrocarbon	(b)	it will have 8 hy	drogen a	toms	
	(c) its name will be n-butane	(d)	it will be least re	eactive		
(xi)	The reduction of alkyl halides takes pl	ace in the pre	esence of:			
	(a) Zn/HCl (b) Na/HCl	(c)	Mg/HCl	(d)	Cu/HC1	
(xii)	Halogenation of methane does not pro	duce which o	ne of the followi	ing:		
	(a) carbon tetrachloride	(b)	chloroform			
	(c) carbon black	(d)	chloromethane			
X						
2-	Write short answers of the following	p <mark>estions.</mark>				(18)
(i)	What is natural gas?					
(ii)	What is ether linkage?					
(iii)	Explain the strength of covalent bonds of	f carbon.				
(iv)	What is meant by carboxyl functional gro	oup? Explain v	with an example.			
(v)	What is coal gas? Write down its use.	. 1980 VS				
100 00000	How can we get alkanes?					
83 - 55	What is substitution reaction?					

(viii)How alcohols are dehydrated. Write chemical equation.

(ix) Why are the alkanes called 'Paraffins'?

Biochemistry To

Test # 21 Chapter # 13, 14	The Atmosphere	Time: 30 Min
A B C D 1. O O 5 2. O O 6 3. O O 7 4. O O 8	7. 0000 11. 00	

1-	Fill the box of correct answer in this manner that the ink is not come out from the box. (12)									
(i)	Basic structural unit of nucleic acids is:									
	(a)	Amino acid	(b)	Glucose	(c)	Nucleoside	(d)	Nucleotide		
(ii)	Wh	ich protect our mu	scles	from cramping?						
	(a)	Proteins	(b)	Lipids	(c)	Vitamins	(d)	Carbohydrates		
(iii)	For	mula of palmitic ac	id is	:						
	(a)	$C_{15}H_{31}COOH$	(b)	$C_{16}H_{32}COOH$	(c)	$C_{17}H_{35}COOH$	(d)	$C_{18}H_{36}COOH$		
(iv)	In v	vhich part of digest	tive s	ystem Glucose is ab	sorb	ed?				
	(a)	Stomach	(b)	Liver	(c)	Small Intestine	(d)	Large Intestine		
(v)	Wh	ich one vitamin of	the fo	ollowing is soluble in	n wa	ter:				
	(a)	Vitamin A	(b)	Vitamin C	(c)	Vitamin D	(d)	Vitamin E		
(vi)	Wh	ich of the following	is a	disaccharide?						
	(a)	Glucose	(b)	Fructose	(c)	Sucrose	(d)	Starch		
(vii)	At t	the height 85 - 120 l	km fr	om earth's surface	is:	COL				
	(a)	Troposhphere	(b)	Mesosphere	(c)	Straitosphere	(d)	Themosphere		
(viii)Wa	ste material that po	llute	s air, water and soi	l is to	ermed as:				
	(a)	Pollution	(b)	Pollutant	60	Solvent	(d)	Solution		
(ix)	We	exhale gas in the a	tmos	phere during respir	ation	ı:				
	(a)	Carbon dioxide	(b)	Oxygen	(c)	Nitrogen	(d)	Water		
(x)	The	major constituents	s of t	roposphere are nitr	ogen	and:				
	(a)	Hydrogen	(b)	Carbon dioxide	(c)	Oxygen	(d)	Sulphur		
(xi)	Ozo	ne is formed in:								
	(a)	Troposphere	(b)	Stratosphere	(c)	Mesosphere	(d)	Thermosphere		
(xii)		_of the volume of the	he at	mosphere of earth o	conta	ins Nitrogen and O	xyge	n gases.		
	(a)	69%	(b)	79%	(c)	89%	(d)	99%		

Write short answers of the following questions.

- Write names and formulas of two fatty acids? (i)
- Define Amino Acids write general formula.
- (iii) How Hydrogenation of vegetable oil takes place. Give equation.
- (iv) Describe the denaturing of proteins.
- Write down two commercial uses of enzymes.
- (vi) Name the major constituents of troposphere.
- (vii) Write two methods to control the pollution.
- (viii) Why the temperature of upper part of startosphere is high?
- (ix) What do you mean by air pollution?

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T	est # 22 Chapter # 13, 14		Biochemistry To]	ime: 3	0 Min
	A B C D 1. O O 5. 2. O O 6. 3. O O 7. 4. O O 8.		C D 9. 10. 11.		A B O O O O O O O O O	C (() () () () () () () () ()	
1-	Fill the box of correct answer in this m	nanner that t	he ink is not come out fr	om tl	he box.		(12)
(i)	Lactic acid is found in:	(a)	Laman	(4)	Lleina		
(ii)	(a) Milk (b) Apple Amino acids polymerise to produce:	(c)	Lemon	(d)	Urine		
(11)	(a) Carbohydrates (b) Proteins	(c)	Lipids	(d)	Vitamins		
(iii)	Deficiency of vitamin D causes:	(-)		(4)		8:	
	(a) Rickets (b) Scurvy	(c)	Anemia	(d)	Night Bl	indness	
(iv)	Which scientist discovered the structur	re of DNA?					
	(a) Hopkins (b) John Dalto	on (c)	Watson and Crick	(d)	Robert F	looke	
(v)	Which one is carboxylic group?						
	(a) $C = O$ (b) $\begin{bmatrix} \Box \\ -C - OH \end{bmatrix}$	(c)	R - C - OR'	(d)	\Box $-C-H$		
(vi)	Number of vitamins in vitamin B comp	plex is:					
	(a) 10 (b) 8	(c)	6 OTT	(d)	12		
(vii)	pH of acid rain is about:		C				
81 82236	(a) 4 (b) 6		6.5	(d)		reser never s	10 02 18241
(viii	How many atmospheric temperature in	ncrease ever	V			dioxide i	in air?
(:\	(a) 0.01°C (b) 0.05°C	E	0.09°C	(d)	0.013°C		
(IX)	Thermosphere layer is at height above (a) 0-12 km (b) 12-50 km		50-85 km	(4)	85-120 k		
(x)	(a) 0-12 km (b) 12-50 km On What basis atmosphere is divided in	y N=7		(d)	65-120 K	.111	
(A)	(a) Change in Pressure	(b)	Change in Radiations				
	(c) Change in Temperature	(d)	Change in Weather				
(xi)	pH of rainy water is:	8-8					
	(a) 5 6 (b) 6 6.5	(c)	6.5 7	(d)	7 7.5		
(xii)	About 99% atmosphere's mass lies wit	thin:					
	(a) 30 kilometre (b) 35 kilomet	tre (c)	15 kilometre	(d)	11 kilom	etre	
*	, 						
2-	Write short answers of the following q	Contract Con					(18)
(i)	Write names and formulas of two fatty ac						
LESSON A	Define Amino Acids write general formu						
90 M	How Hydrogenation of vegetable oil take	es place. Give	equation.				
100 30	Describe the denaturing of proteins.						
(v)	Write down two commercial uses of ena	zymes.					

- (vi) Name the major constituents of troposphere.
- (vii) Write two methods to control the pollution.
- (viii) Why the temperature of upper part of startosphere is high?
- (ix) What do you mean by air pollution?

Water To Test # 23 Chapter # 15, 16 Time: 30 Min **Chemical Industries** В B В 5. 9. 2. 10. 6. 3. 11. 4. Fill the box of correct answer in this manner that the ink is not come out from the box. (12)The process of removing temporary hardness of water is: (i) (a) Clark's method (b) Washing soda method (c) Sodium zeolite (d) Filteration method The lives of aquatic plants and animals are indirctly related to concentration of dissolved gas in water. (a) Nitrogen (b) Hydrogen (d) Carbon Oxygen (iii) Cholera is caused by: (a) Protozoa (b) Virus Bacteria (d) Fungi (c) (iv) Which ion is responsible for the hardness of water. Fe^{2+} Zn^{2} Ca^{2+} Na^{+} (a) (b) (c) (d) Boiling point of alcohol in centigrade is. 68 (a) 78 100 (d) 108 (c) (b) (vi) The density of water at 4°C is: (a) $1gcm^{-3}$ 4gcm⁻³ (b) $2gcm^{-3}$ 3gcm⁻³ (d) (vii) In diesel oil, the carbon composition is: C13toC15 (a) $C_7 to C_{10}$ (b) $C_{10}toC_{12}$ $C_{15}toC_{18}$ (d) (viii) Which one is not the fraction of residual oil? (a) Paraffin wex Fuel oil (b) Asphalt Coke (d) (c) (ix) The chemical formula of chalcopyrite is: (b) CuFe₂S (a) Cu_2S CuS FeS (d) (c) Concentration is a: (a) mixing technique (b) separating technique (c) boiling technique (d) cooling technique (xi) Forth flotation process is used to concentrate the ore on: (b) concentration basis (a) density basis (c) wetting basis (d) magnetic basis (xii) Matte is a mixture of: (c) Cu_2S and FeS (d) CuS and FeO (b) Cu_2O and FeO (a) FeS and CuS Write short answers of the following questions. (18)What do you mean by Fluorosis? (i) NOTESPK Define Scum. (ii) (iii) How sodium zeolite softens water? (iv) Describe one method to remove the permanent hardness of water. What do you know about the occurrence of water? (vi) Define gangue and metallurgy. (vii) How NaHCO₃ is converted to Na₂CO₃?

(viii) How ammonia is prepared for the synthesis of urea?

(ix) Write down raw material for Salvay's process.

		W-4 T-	6		
Test # 24 Chapter # 15, 16	_	Water To		14.	Time: 30 Min
	C	hemical Indus	strie	es	
A B C D 1. 0 0 0 5.	A]	B C D	9.	A B	$\begin{bmatrix} \mathbf{C} & \mathbf{D} \\ \bigcirc & \bigcirc \\ \bigcirc & \bigcirc \\ \end{bmatrix}$
2. 0 0 0 6. 3. 0 0 0 7. 4. 0 0 8			10. 11. 12.		
4. 0 0 0 8.			12.		
1- Fill the box of correct answer in this m	anner that t	he ink is not come o	out fr	om the box.	(12)
(i) Presence of ions in water result	s in a rapid	growth of algae is:			
(a) NO_3^-, P_4^{3-} (b) $Br^-, C\ell^-$	(c)	$C\ell^-, SiO_3^{2-}$	(d)	SO_4^{2-}, CO_3^{2-}	
(ii) Clark's method is used to remove the h	ardness of	water. In this metho	d wh	ich is used:	
(a) $Ca(HCO_3)_2$ (b) Ca - Zeolite	e (c)	Na ₂ Zeolite	(d)	$Ca(OH)_2$	
(iii) Which one of the following is agricultu	ıral effluent	:			
(a) Heavy Metals (b) Mineral Ac	22.50	Detergents	(d)	Fertilizers	
(iv) Vibrios cholera bacteria causes the disc		Trmboid	(4)	Hanatitia	
(a) Cholera (b) Dysentery	8 50	Typhoid	(d)	Hepatitis	
(v) The bond angle between H-O-H in wat		104.70	(I)	104.00	
(a) 104.5° (b) 104.6°	(c)		(d)	104.8°	o and
(vi) Which one of the following properties	1950	Addition of Parkets and State 1	g of v	vater in plant	s?
(a) specific heat capacity	(b)	-Cr			
(c) excellent solvent action	(d)	capillary action			
(vii) In the bessemerization process:		VL.			
(a) roasted ore is heated	(b)	Y	noved	i	
(c) molten matte is heated	(d)	molten matte is add	ded		
(viii)Concentration of the copper ore is carr	ied out by:				
(a) calcinations (b) roasting	(c)	forth flotation	(d)	distillation	
(ix) When CO2 is passed through the ammo	onical brine	the only salt that p	recipi	itates is:	
(a) $NaHCO_3$ (b) NH_4HCO_3	(c)	Na_2CO_3	(d)	$(NH_4)_2CO_3$	
(x) In Solvay's process slaked lime is used	to:				
(a) prepare CO_2 (b) prepare qui	ck lime (c)	recover ammonia	(d)	form Na ₂ CO	
(xi) When NaHCO3 is heated it forms:					
(a) CO_2 (b) $Ca(OH)_2$	(c)	CaCO ₃	(d)	CaO	
(xii) Formula of urea is:					
(a) NH_2COONH_4 (b) NH_2COONH_4	I_2 (c)	NII ₂ CONII ₄	(d)	NH ₂ CONH ₂	
2 Write short enswers of the following of	ESPN				(19)
2- Write short answers of the following q	uestions.				(18)
(i) What is water pollution?					
(ii) Write a short note on Cholera.					
(iii) Write any four names of diseases borne by	y water.				
(iv) What are domestic effluents?					
(v) Write any four properties of water.					
(vi) What is gravity separation?					
(vii) Define petroleum and refining process.					
(viii)Which petroleum fraction is used in dry c		ite down its boiling r	ange.		
(ix) Write down any two advantages of Solvay	process.				

Chapter # 5 10 12	Tirst Hall Book Fa	per ito. i	Tillic. I Hou
A B C D	A B C D	AB	C D
1. 0000 5.	0000	9. \bigcirc	
2. 0 0 0 6.		10.	
3. 0 0 0 7.		11.	
4. 0 0 0 8.	0000	12.	
Fill the box of correct answer in this ma		ut from the box.	(12)

- - (a) Irreversible
- (b) Reversible
- Non-reactive
- (d) Dynamic
- (ii) A reaction in which products recombine to form reactants is called:
 - (a) Reversible reaction
- (b) Irreversible reaction
- (c) Forward reaction
- Backward reaction

- (iii) When reaction ceases to proceed is called:
 - (a) Dynamic equilibrium
- Static equilibrium

Pause equilibrium

- (c) Physical equilibrium (iv) When CaCO3 is heated in an open flask, it decomposes to form calcium oxide (CaO) and
 - (a) \boldsymbol{O}_2
- (b) CO
- (c) CO,
- (d) CO_3

- (v) Class formula of primary alcohol is:
 - $R-CH_2-OH$ (a)

- (vi) Used in the manufacturing of soap is:
 - (a) $Pb(NO_3)_2$
- (b) ZnCl,
- (c) NaOH
- (d) Fe(OH),
- (vii) The branch of chemistry which deals with the study of hydrocarbons and their derivatives is known as:
- (a) In organic chemistry (b) Organic chemistry (viii) Total No. of elements known till now are:
 - (a) 102
- (b) 109
- 118
- (d) 126

(c) Physical chemistry (d) Analytical chemistry

- (ix) Functional group of alcohols is:
 - (a) -COOH
- (b) > C = O
- (d) OH

- (x) Incomplete combustion of alkanes produces:
 - (a) carbon dioxide only
 - (c) carbon monoxide and carbon black
- carbon monoxide only
- carbon dioxide and carbon black
- (xi) Alkenes are prepared from a alcohols by a process called:

(a) dehydrogenation

- (b) dehalogenation
- (c) dehydration
- (d) dehydrohalgenation

- (xii) Dehydrohalogenation takes place in the presence of:
 - (a) NaOH aqueous
- (b) alcoholic KOH

%-----

- (c) aqueous KOH (d) alcoholic NaOH

Write short answers of the following questions.

- Write two macroscopic characteristics of reverse reactions.
- What is active mass? Also write its unit.
- (iii) Write four naturally occurring acids with uses.
- (iv) What are indicators write names of two indicators.
- Describe about universal indicator.
- (vi) What happens when ethyl alcohol is heated in the presence of H_2SO_4 ?
- (vii) What is Vital Force Theory?
- (viii)Define combustion write two equations with Methane and Oxygen.
- (ix) How can prepare propene from propyl alcohol?
- (x) Write down two uses of ethene.

SUBJECTIVE PART

Answers the following questions with detail.

(18)

(20)

- (a) Describe reversible reaction with the help of an example and graph.
 - (b) Write down the reactions of acids with metals, carbonates and bicarbonates.
- (05)(04)

(05)

- Define functional group. Give the examples of aldehydic and ketonic functional groups.
 - (b) Write down physical properties of alkanes.

(04)

10t	کلائ	" فیمسٹری"			28					ورسٹائل کلاس تعیبٹ
	es	t # 26 Cha	pter	# 9 To 12	First	Hal	f Book Pa	per No.	2 Ti	me: 1 Hour
	1. 2. 3. 4.	A B O O O	C (C (C (C (D 5. 6. 7. 8.	A E) (C D O O O O O O	A 9. 10. 11. 12.	B (
1-	Fill	the box of correc	t answ	er in this ma	nner that tl	ne inl	c is not come o	ut from the	box.	(12)
(i)	The	characteristics o						184 - 179		
	(a)	products never re			ctants	(b)	they never cor	nplete		
	(c)	they proceed in b	100		8	8				
	(d)	the have a double			100					
(ii)	In t	he lime kiln, the r		$1 CaCO_{3(s)} \longrightarrow$	$CaO_{(s)} + CO_{2(g)}$	goe				
	(a)	of high temperatu				(b)	CaO is more s		iCO ₃	
152720	(c)	co ₂ escapes cont		-		(d)	CaO is not dis	ssociated		
(iii)	For	the reaction, 2	$\mathbf{I}_{(g)} + \mathbf{B}_{(g)}$. Postate					13509	
	(a)	$\frac{ 2A B }{ 3C }$	(b)	$ A ^2 B $ $ C ^3$		(c)	$\frac{ 3C }{ 2A B }$	(d) _L	$ C ^2$ $A ^2 B $	
(iv)	Acie	ds have taste:								
S 9	(a)B	Bitter	(b)	Sweetish		(c)	Sour	(d) S	altish	
(v)	Bas	es have taste:	22 . 25			15799500		42 28		
	(a)B	Bitter	(b)	Sweetish		(c)	Sour	(d) S	altish	
(vi)	Wh	ich one gas is libr	ated, v	vhen alkalies	react with	amn	ionium salts:			
	(a)	O_2	(b)	CO_2		(c)	H_2	(d) <i>I</i>	VII_3	
(vii)	Ben	zene is formed by	the p	olymerizatio	n of:	v.				
	(a)	Methane	(b)	Acetylene	~	(c)	Ethene	(d) B	utene	
(viii)Hov	v many C - C bon	ids hav	ing a bond e	nergy?	8				
	(a)	255 KJ mol 1	(b)	355 KJ mol ¹		(c)	455 KJ mol 1	(d) 5	55 KJ mol	T
(ix)	The	ability of carbon	atoms	to form cha	ins is called	l :				

(a) Oxalic acid

(a) isomerism

(b) catenation

resonance

(c) ethane glycol

(d) condensation

(d) propene glycol

- (b) glyoxal (xi) Which one of these is a saturated hydrocarbon?
 - (a) C_2H_4
- (b) C_3H_6
- (c) C_4H_8
- (d) $C_5 H_{12}$
- (xii) A hydrocarbon has molecular formula C_8H_{14} . What is the molecular formula of the next member of the same homologous series?
 - (a) C_9H_{18}
 - (a) C_9H_{18} (b) C_9H_{16} (c) C_9H_{20} (d) C_9H_{12}

Write short answers of the following questions.

(20)

- Differentiate between products and reactants.
- (iii) A solution of HCl is 0.01 M. What is its pH value.
- (iv) Differentiate between Lewis base and conjugate base.
- (vi) Give a test to identify $H_2C = CH_2$.

(viii) Why alkenes are called olefins?

- (v) What is indicator? Give two examples.
 - (vii) How animals are sources of organic compounds?

(ii) Define K_c large value and K_c small value.

- (ix) What are closed chain hydrocarbons?
- (x) Define hydrocarbons?

SUBJECTIVE PART

Answers the following questions with detail. (18)(a) How equilibrium constant help to predict the direction of reaction? (05)Write three uses of salts. (04)What is homologus series? Write down the properties of its organic compounds. (05)(b) Write down any three uses of Acetylene. (04)

Test # 27 Chapter # 13 To 1	Second Half Book	Paper No. 1	Time: 1 Hour
A B C D 1. O O 5. 2. O O 6. 3. O O 7. 4. O O 8.	A B C D O O O O O O	9. O C C C C C C C C C C C C C C C C C C	C D O O O

1-	Fill	the box of correct answer	r in	this manner that tl	he inl	k is not come out from	the bo	x. (12)
(i)	For	mula of stearic acid is:						
	(a)	$C_{17}H_{38}COOH$	(b)	$C_{17}H_{33}COOH$	(c)	$C_{17}H_{37}COOH$	(d)	$C_{15}H_{31}COOH$
(ii)	Cita	ric acid is found in:	1070004.0		1123 200			
	(a)	Lemon	(b)	Apple	(c)	Milk	(d)	Fats
(iii)	Lac	tose consists of glucose a	nd:					
	(a)	Sucrose	(b)	Maltose	(c)	Starch	(d)	Galactose
(iv)	Dep	ending upon temperatui	e va	riation, atmospher	e is d	ivided into how many	region	is?
	(a)	one	(b)	two	(c)	three	(d)	four
(v)	Just	t above the Earth's surfa	ce is	:				
247.22	(a)	mesosphere	(b)	stratosphere	(c)	thermosphere	(d)	troposphere
(vi)	A g	roup of gases that maint	ains	temperature of atn	nosph	iere is:	1,000	•
	(a)	carbon dioxide and water		APERIOD AND PROPERTY OF STREET	(b)	nitrogen and carbon di	oxide	
	(c)	oxygen and water vapour	-3.5		(d)	nitrogen and oxygen		
(vii)		cific heat capacity of war		:	(-)			
()	(a)	$4.2kJg^{-1}K^{-1}$	(b)	$4.2Jg^{-1}K^{-1}$	(c)	$2.4kJg^{-1}K^{-1}$	(d)	$2.4Jg^{-1}K^{-1}$
(viii		ter dissolves non-ionic co	1		(0)	Z.Thug K	(u)	2.40g K
(1111)	(a)	ion-ion forces		ion-dipole forces	(c)	dipole-dipole forces	(4)	hydrogen bonding
(iv)		nporary hardness is beca		The first of the contract of t	(0)	dipole-dipole forces	(u)	nydrogen bonding
(IX)	20120	Farmer and Removal	000201200	554.250002001000	(a)	A Proce	(4)	MaSO
(m)	(a)	$Ca(HCO_3)_2$	(b)	CaCO ₃	(c)	MgCO ₃	(d)	$MgSO_4$
(x)	20120	ide oil is heated in the fu	0.02020		X.	1000 0	(1)	.=
	(a)	300"C	(b)	350°C	\bigcirc (c)	400° C	(d)	450° C
(X1)	20120	en heated crude oil is fed		DY.		Trial Carrier IV Section IV		
	(a)	vapours of higher boiling		1				
	(b)	vapours of lower boiling	poin	t fraction condense	first i	n the lower part of towe	er	
	(c)	vapours of higher boiling	g poir	nt condense later in	the up	oper part of tower		
	(d)	vapours of higher boiling	g poir	nt never condense.				
(xii)	Wh	ich one of the following i	s use	ed as jet fuel:				
	(a)	kerosene oil	(b)	lubricating oil	(c)	fuel oil	(d)	diesel oil
3	· 							
2-		ite short answers of the f	fallav	ving anestions				(20)
(i)		te down two properties of						(20)
		w plants synthesize carboh						
		v ozone layer is being dep	•		hone?			
35 ii		그는 그는 그를 가는 그는 스프로 중심		Way man	001151			
		at do you mean by green h						
	Ozone is beneficial for human life, justify.							
23		te causes of water pollutio	n.	NOTESPK				
		at are domestic effluents.	11	•				
		e carbonation of Ammonio	cal bi	ine.				
S2		at is calcination process?	, 1	24.				
(X)	WTI	te any two advantages of S	olva		enderenten			
				SUBJECTI	VE	PART		
☆	Ans	swers the following quest	ions	with detail.				(18)
3-	(a)	Explain the sources and	uses (of proteins.		(05)		

(04)

(05)

(04)

What is Ozone layer? How is it being depleted?

Explain the process of roasting with reference to copper.

Explain four important waterborne diseases.

(x) State roasting.

Answers the following questions with detail.

Write a note on the importance of urea.

(b) Explain the effects of acid rain.

(a) Write the properties of water.

(a) Write down the sources and uses of carbohydrate.

(18)

	est # 28 Chapter # 13 To 16	Second H	alf Book F	Paper N	Io. 2 Time: 1	l Hour
	A B C D 1. O O 5. 2. O O 6. 3. O O 7. 4. O O 8.	A B (9. (A) (C) (A) (C) (A) (A) (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	B C O O O O O O O O O O O O O O O O O O	
1-	Fill the box of correct answer in this man			ut from th	e box.	(12)
(i)	Proteins make up percentage of the (a) 25 (b) 50	15		(d)	100	
(ii)	Which one is the simplest sugar which ca	N 4		(u)	100	
(,	(a) Glucose (b) Sucrose	(c)	Starch	(d)	Cellulose	
(iii)	General formula of carbohydrates is:	(-)		(-)		
3 Z	(a) $C_{n-1}(H_2O)_n$ (b) $C_n(H_2O)_{n-1}$	(c)	$C_n(H_2O)_n$	(d)	$C_n(OH)_n$	
(iv)	The Earth's atmosphere is getting hoter b			7-5	300	
. /	(a) increasing concentration of CO	(b)	increasing con	centration	of <i>CO</i> ,	
	(c) increasing concentration of O_3	(d)	increasing con			
(v)	Which one of the followings is a Greenho	N. 76	S		•	
	(a) increasing atmospheric temperature	(b)	increasing foo	d chains		
	(c) increasing flood risks	(d)	increasing sea-			
(vi)	Normally rain water is weakly acidic because	ause of:				
	(a) SO_3 gas (b) CO_2 gas	(c)	SO ₂ gas	(d)	SO ₂ gas	
(vii)	Temporary hardness is removed by addit	ng:				
	(a) quick lime (b) slaked lime	(c)	limestone	(d)	lime water	
(viii)	Permanent hardness is removed by adding	ıg:	1			
	(a) Na_2 zeolite (b) soda lime	(c)	lime water	(d)	quick lime	
(ix)	Which one of the following salts makes th	ne water perma	nently hard?			
	(a) Na_2CO_3 (b) $NaHCO_3$	(c) °	$Ca(HCO_3)_2$	(d)	CaSO ₄	
(x)	Which one of the following is not fraction	of crude oil?				
75 1250	(a) paraffin wax (b) asphalt	(c)	fuel oil	(d)	petroleum coke	
(xi)	Which one of the following is not a fraction	on of petroleun	1?	O Docasii	the analysis of the	
,	(a) kerosene oil (b) diesel oil	(c)	alcohol .	(d)	petrol	
(xii)	The nitrogen present in urea is used by p	lants to synthes	7/ 4 /7/200	7.9794		
	(a) sugar (b) proteins	(c)	fats	(d)	DNA	
×						
2-	Write short answers of the following que	stions.				(20)
(i)	Depending upon the nature of bonds, name	the classes of hy	drocarbons.			
(ii)	What is biochemistry?					
(iii)	How are oxides from nitrogen formed in into	ernal combustion	n engine? Write	chemical	equation.	
(iv)	What is troposphere? Give its two character	sistics.				
(v)	Identify as primary or secondary air pollutar	nts in the followi	ng.			
(vi)	Define leaching process.					
	What is dysentery?					
	Describe role of technology in the production	6 of common ch	emicals.			
(ix)	What is Bessemerization?					

SUBJECTIVE PART

(05)

(04)

(05)

(04)

Chapter # 9 To 16	Full Book Paper No.	1 Time: 2:30 Min
A B C D 1. 0 0 0 5. 2. 0 0 0 6. 3. 0 0 0 7. 4. 0 8.	A B C D 9. O O O 10. O O O 11. O O O O 12.	A B C D O O O O O O

Fill the box of correct answer in this manner that the ink is not come out from the box.

(12)

Q.1	Questions	(A)	(B)	(C)	(D)
(i)	Crude oil is heated in furnace upto:	300°C	350°C	400°C	450°C
(ii)	Which gas is used to destroy harmful bacteria in water?	Iodine	Chlorine	Flurine	Bromine
(iii)	Permanent hardness of water is removed by adding:	Na ₂ – Zeolite	Soda lime	Lime water	Quick lime
(iv)	Acid rain effects the aquatic life by cloging fish gills due to:	Lead	Chromium	Mercury	Aluminium
(v)	Which is a fat soluble vitamin?	Vitamin A	Vitamin E	Vitamin K	All of these
(vi)	Deficiency of vitamin D causes disease:	Rickets	Scurvy	Anemia in babies	Night blindness
(vii)	Dehydration of alcohols is carried out with:	NaOH	КОН	H ₂ SO ₄	HCl
(viii)	Pitch is a black residue of:	Coke	Coal tar	Coal	Coal gas
(ix)	Which one of the following is a Lewis base?	NH_3	BF_3	H 1	AlCl ₃
(x)	is used as drying agent for gases.	CaCO ₃	NaCl	CaO	Na ₂ SiO ₃
(xi)	When the magnitude of K_c is very large it indicates:		 Reaction mixture consists of almost all reactants 	Reaction has not gone to completion	Reaction mixture has negligible products
(xii)	Guldberg and Waage put forward the law of mass action in:	1859 A.D	1869 A.D	1879 A.D	1889 A.D

Marks: 48

☆ Subjective (Part-I)☆

Time: 01:45

Write short Answers of any five part.

- $(5 \times 2 = 10)$
- Define static equilibrium. Give an example. (ii) Write two characteristics of irreversible chemical reaction. (iii) If $Q_c < K_c$ then predict the direction of chemical reaction.
- (iv) Write the formula of Aluminium hydroxide. (v) Write two uses of calcium hydroxide.
 - (vii) Define acid and base according to Lewis concept.
- (vi) Define hyperacidity. (viii) How are salts prepared by the reaction of acid and metal?

Write short Answers of any five part.

 $(5 \times 2 = 10)$

 $(5 \times 2 = 10)$

 $9 \times 2 = 18$

- Define structural formula and give an example.
- (ii) Write down the name and formulae of two heterocyclic compounds.
- (iii) Define Isomerism. Write down two sources of Alkanes. NOTESPK
 - (iv) Write two physical properties of Alkenes.
- (vii) What is the function of DNA?
- (vi) Differentiate between glucose and fructose with the help of structure. (viii)Differentiate between oil and fats.
- Write short Answers of any five part.
- (ii) What do you mean by pollutants?
- Write two effects of global warming. (iii) What is Ozone?
- (iv) Differentiate between soft and hard water.
- Why are pesticides used?
- (vi) What is meant by minerals?

(vii) Define Smelting.

(viii) Write any two fractions of residual oil.

Attempet any two Questions. Each question has 9 marks.

- Derive equilibrium constant expression for a general reversible chemical reaction. 5.
 - (b) Write four specific characteristics of bases.
 - (a) Write down five physical properties of Alkanes. (b) Write a note on monosaccharides.
- What is fractional distillation? Describe fractional distillation of petroleum.
 - Water is a universal solvent. Explain it.

LES	Chapter # 9	Full Book i	. 2	Time: 2:30 IVIIN			
	ABCD		A B C I)	A]	ВС	$\overline{\mathbf{D}}$
1.	000	5.	000	9.	0	\bigcirc	$\overline{\bigcirc}$
2.	0000	6.	0000	10.	\bigcirc	\bigcirc	\bigcirc
3.	0000	7.	0000	11.	\bigcirc	\bigcirc	
4.	0000	8.	0000	12.	\bigcirc	\bigcirc	

Fill the box of correct answer in this manner that the ink is not come out from the box. (12)Q.1 **(D)** Questions (B) (A) **(C)** $Ca(HCO_3),$ Temporary hardness is because of: CaCO, MgSO, $MgCO_3$ 350°C 400°C (ii) Crude oil is heated in the furance upto: 300°C 450°C (iii) The colour of I_2 gas is: Blue Purple Red Green (iv) If $Q_c < K_c$ what will be the direction of reaction: Forward Equilibrium Speed up Reverse gradually state Mallic acid (v) Which aicd found in apple? Utric acid Formic acid Citric acid S^{2-} SO2- HSO_3^- HSO₄ (vi) The conjugate because of sulphuric acid: (vii) In laboratory urea was prepared by: Rutherford Berzellius Wholer Dalton Oxalic aicd (viii) Oxidation of alkenes produces. Formic acid Glyoxal Glycol (ix) Which one of the following is tasteless? Glucose Fructose Starch Sucrose (x) Night blindness is because of deficiecy of: Vitamin A Vitamin C Vitamin D Vitamin E (xi) Just above the earth' surface is: Mesophere Stratosphere Thermosphere Troposphere 4.2 KJg⁻¹ K⁻¹ $4.2 \ Jg^{-1}K^{-1}$ 2.4 KJg-1K-1 $2.4 Jg^{-1}K^{-1}$ (xii) Specific heat capacity of water is:

Marks: 48

 $(5\times 2=10)$

Write short Answers of any five part. Why reversible reactions never complete?

What do you mean by equilibrium constant?

- What represents the very small value of K_c for a reaction?
- What is static equilibrium? Explain with an example. Write two limitations of Arrhenious concept. (v)

☆ Subjective (Part-I)☆

- Write two physical properties of acids.
- (vii) Write two uses of pH. (viii) What are mixed salts?
- Write short Answers of any five part.
- Define isomerism. (i)

(i)

- What is destructive distillation?
- Write two physical properties of Alkynes.
- (vii) What are advatnages of fats solulbe vitamins?
- Write short Answers of any five part.
- Name the different spheres of atmosphere. (i)
- What is green house effect.
- What do you mean by Fluorosis?
- (vi) What are Minerals?
- NOTESPK

- How carbon completes its octet?
- (iv) Write down two uses of methane.
- (vi) Write down the general formula of amino acid.
- (viii) How is gelatin obtained?

 $(5 \times 2 = 10)$

 $(5 \times 2 = 10)$

Time: 01:45

- (iii) Define Acid rain.
- Why non-polar compounds are insoluble in water?
- (vii) Write two uses of Kerosene oil.

(viii) What is fractional distillation?

☆ SUBJECTIVE (Part-II) ☆

Attempet any two Questions. Each question has 9 marks.

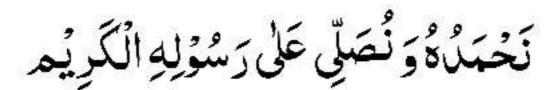
 $9 \times 2 = 18$

- Describe five macroscopic characteristics of dynamic equilibrium. 5.
 - Describe two methods for measuring pH of solution.
- Write five physical properties of Alkenes. 6.
 - Define Amino Acids, Amino Acids are building blocks of proetiens, explain.
- Write a detailed note on ammonia Solvay's Process. 7.
 - Give four effects of water pollution.

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\ معزز اساتذہ کرام ، السلام علیکم ورحمۃ اللہ! گزارش ہے کہ سٹوڈ نٹس کو مطالعہ ہے پہلے درج ذیل | دعاؤں کو ہا قاعد گی ہے پڑھنے کی ترغیب دیں۔جزاک اللہ۔

عزیز طلبا و طالبات، آپ سب بھی دعاؤں کا اہتمام ضرور کریں۔ اللہ تعالیٰ آپ سب کے اور اساتذہ کرام کے عِلم، زندگی اور ایمان میں برکت دے۔ آمین۔

جمارے لیے بھی دعا کرتے رہیں۔ اللہ تعالیٰ ہم سب کے لیے دنیاو آخرت میں آسانیاں اور سکون نصیب فرمائے۔

بینسم الله الرَّحٰلنِ الرَّحِیمُط الله کے نام سے شروع جور حمٰن ورجیم ہے۔

اَللَّهُمَّ صَلِّ عَلَى مُحَمَّدٍ وَعَلَى الرِمُحَمَّدٍ كَمَا صَلَّيْتَ عَلَى إِبْلِهِيْمَ وَعَلَى الرِابُلِهِيْمَ اِنَّكَ حَلِيْلًا فَيْمَ اللَّهُمَّ مَا يَارُكُ عَلَى مُحَمَّدٍ وَعَلَى الرِمُحَمَّدٍ كَمَا بَارَكُ عَلَى اِبْلِهِيْمَ وَعَلَى الرِمُحَمَّدٍ كَمَا بَارَكُ عَلَى اِبْلِهِيْمَ وَعَلَى الرِابُلِهِيْمَ اللَّهُ عَبِيْلًا هَجِيْدًا أَ

رَبِّ اشْرَحْ لِيْ صَدْرِى ۚ وَيَسِّرُ لِي ٓ اَمْرِى ۗ وَاحْلُلُ عُقْدَةً مِّنَ لِسَا فِي ۗ كَفْقَهُوا قَوْلِي ٥

رَبِّ زِدْنِيْ عِلْمًا۔ رَبِّ زِدْنِيْ عِلْمًا۔ رَبِّ زِدْنِيْ عِلْمًا۔

اَللّٰهُمَّ اِنِّ اَسْئَلُكَ عِلْمًا نَّا فِعًا وَّرِزُقًا طَيِّبًا وَّ عَمَلًا مُّتَقَبَّلًا٥

آخر میں درود شریف دوبارہ پڑھیں۔ اللہ تعالیٰ آپ کو جزاد ہے، آپ کے علم کے حصول میں آسانیاں عطافر مائے۔